FIGURE 2134

```
GGCATCACTCGAGCCCAGGTCCCAGTCATCACCACTCACAGCGCTCGGCGTTCAGGAAGAGGAGCACCAGCGGAG
CGCGGCTGCTTCAGCGGCGGGCGGGCGCCAGAAAGGCCCCGATCGAAAAGCCTGGGAGGGCCGCCGAACTACCCC
CGGAGGGAGGAGCCAGTCCGAACCCAAGGCGCCACCGCCGCAGAAGCGGAGCGAGGCAGCATTCGCCTCCATGGC
CCCACTCGCCGGTGGCTGTCCAAGTGCCTGGGATGCAGAATAACATAGCTGATCCAGAAGAACTGTTCACAAAATT
AGAGCGCATTGGGAAAGGCTCATTTGGGGAAGTTTTCAAAGGAATTGATAACCGTACCCAGCAAGTCGTTGCTAT
TAAAATCATAGACCTTGAGGAAGCCGAAGATGAAATAGAAGACATTCAGCAAGAAATAACTGTCTTGAGTCAATG
TGACAGCTCATATGTAACAAAATACTATGGGTCATATTTAAAGGGGTCTAAATTATGGATAATAATGGAATACCT
GGGCGGTGGTTCAGCACTGGATCTTCTTCGAGCTGGTCCATTTGATGAGTTCCAGATTGCTACCATGCTAAAGGA
AATTTTAAAAGGTCTGGACTATCTGCATTCAGAAAGAAAATTCACCGAGACATAAAAGCTGCCAATGTCTTGCT
CTCAGAACAAGGAGATGTTAAACTTGCTGATTTTGGAGTTGCTGGTCAGCTGACAGATACACAGATTAAAAGAAA
TACCTTTGTGGGAACTCCATTTTGGATGGCTCCTGAAGTTATTCAACAGTCAGCTTATGACTCAAAAGCTGACAT
TTGGTCATTGGGAATTACTGCTATTGAACTAGCCAAGGGAGAGCCACCTAACTCCGATATGCATCCAATGAGAGT
TCTGTTTCTTATTCCCAAAAACAATCCTCCAACTCTTGTTGGAGACTTTACTAAGTCTTTTAAGGAGTTTATTGA
TGCTTGCCTGAACAAAGATCCATCATTTCGTCCTACAGCAAAAGAACTTCTGAAACACAAATTCATTGTAAAAAA
TTCAAAGAAGACTTCTTATCTGACTGAACTGATAGATCGTTTTAAGAGATGGAAGGCAGAAGGACACAGTGATGA
TGAATCTGATTCCGAGGGCTCTGATTCGGAATCTACCAGCAGGGAAAACAATACTCATCCTGAATGGAGCTTTAC
CACCGTACGAAAGAAGCCTGATCCAAAGAAAGTACAGAATGGGGCAGAGCAAGATCTTGTGCAAACCCTGAGTTG
TTTGTCTATGATAATCACACCTGCATTTGCTGAACTTAAACAGCAGGACGAGAATAACGCTAGCAGGAATCAGGC
GATTGAAGAACTCGAGAAAAGTATTGCTGTGGCTGAAGCCGCCTGTCCCGGCATCACAGATAAAATGGTGAAGAA
ACTAATTGAAAAATTTCAAAAGTGTTCAGCAGACGAATCCCCCTAAGAAACTTATTATTGGCTTCTGTTTCATAT
GGACCCAGAGAGCCCCACCAAACCTACGTCAAGATTAACAATGCTTAACCCATGAGCTCCATGTGCCTTTTGGAT
CTTTGCAACACTGAAGATTTGGAAGAAGCTATTAAACTATTTTGTGATGGCGTTTATCATTTTATATTTTGAAAG
GATTATTTTGTAAGGAATAACTTTTAATACTATAGTTTCACCTGTATTCTAGTAAATGTTGAGACACCGTTTTGC
TTTTAAGTATCCCTATTTCTTAAGTTACGAGGATGAATACCTTTCACATTTTGATCTTTAGTTGACTCTACAGTC
ATGAAACATACAGGTCTTTCAAAGTCATTCTCAATATTCAGCTTTTGTAAATTATCAAGCTTCAAAAAGCTTTTT
TTTTAAAAAAAAAAAACATGCATATTCTAAAAATGACTATTGGTGGGGAGGTGTAAATAAGTCATACCTTCTTAAA
ACAGAAAATTTAAGTAAAGTCTTTTAAATGAAACCTGTAAAAGTATTGACTCTTCTACCAAGTTGGTATGATATT
CCAGGCAGCTCAATGATTATCACATTTGAGACCCTGTGTTTGAAGCATTTACAGGCAATGTACAGCAACAGAGGT
ACCTCTTGGTGTATAGTATTTACATTCTCTTTTAGGTAGAAGAGGCAATTTTACCCTTATTTCACATGGTTAGAA
ATTTAAAGCAAGATCATTTACCCAAGGATAGGTGTTTGGTAATGTTGAAGGAGTTAGTCTGGCTTCATGTTTTAC
ATCTTCAACTAAAATCCCATACTATCTGCTTGGATTTGGAGAGCCAAAAAATAAAGCTGATTGTCATGTGATTAA
ATATCTGATCAACAGGTATGAATATAACTTAAATCAGCATATTTTTGCCATGGTAATAAATTGTCCTATAAACTA
TTTATATATTTTTGTTCTTCATAATTATCACTAATAAGCATCAGTTTGTTGTTTTTAAAAGGATATTTAAGTGAG
CATTTTCTAGTTCATATGAAAATAACCATAGTACAGGATGATTTCTGTCCACACAAAGGTTAAATTAGATTGCAC
AGTTAATTTTCACTTATATTTATGGTACTATTATGTGGGTGATGCCTTTTTCTTTTAAGCCCAGTACATATATTA
TGCCTGCCTAAGTTCTGAACTGGGGCTGTATTTCAGTAGTTGTAGAATTATTGATATTTAGTTTTGATAGCTAAT
GTTTAATTGTTTGGATCTGCACAGTTTGGTTTTTGCACAAAGTCATTTAAAAAAAATCTGAGTAATTGTCAAATA
TTAAAAGAAAGATATTCTTCCTGTAAGGAATACAGTTTTTAGTCAAAGTGGCCATTACATCCTCTTTTTAATTTA
CATAATACAGATACTTGAGAAAGTTGTTGTGGTGTTGTATGCCAAGAAAATTCTTTTTATTGGTGCCTATATTGT
AACAATTATTTTTAATGCATTGTATTTTGAAGTAACGGTTCAGTTAAATTTTTCACCTGCTGTGTAACTGAAGCA
CAATTACAGTTTATAATCATCTGTAGAAGTCTGGAGATAATTTTGCAACTCATGTTATGGGTTAAATGAATATTT
TTGTAAAAGTAAAAGCAACAAATTTATAAATTGATTATTTGAAACTTTACAACACAATTGCATCCCAAATACAAA
TTGTATTGCTTATTCATTATAGCTATTCGTCCTGTAATCTGTTTCTAGGTGAAGCATACTCCAGTGTTTTAGGGG
TTTTGAAAATAAATATTTAAATTTCACAGTCAAAAAAA
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FIGURE 2135

MAHSPVAVQVPGMQNNIADPEELFTKLERIGKGSFGEVFKGIDNRTQQVVAIKIIDLEEAEDEIEDIQQEITVLS
QCDSSYVTKYYGSYLKGSKLWIIMEYLGGGSALDLLRAGPFDEFQIATMLKEILKGLDYLHSEKKIHRDIKAANV
LLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIQQSAYDSKADIWSLGITAIELAKGEPPNSDMHPM
RVLFLIPKNNPPTLVGDFTKSFKEFIDACLNKDPSFRPTAKELLKHKFIVKNSKKTSYLTELIDRFKRWKAEGHS
DDESDSEGSDSESTSRENNTHPEWSFTTVRKKPDPKKVQNGAEQDLVQTLSCLSMIITPAFAELKQQDENNASRN
QAIEELEKSIAVAEAACPGITDKMVKKLIEKFQKCSADESP

2417/2825
FIGURE 2136

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GGCAGACTTAATGAAGTCATTAGAACCTTAACTCAGGTCATTAGTGTCTCTGGGGTGATTGGTCTCCAGTCAAAT
GCAGTCTGGCTTCTTGGACATCTTCATCTATCTACTCTATCCTCAAGTCAAAGTAGAGCCTCTGTTCCTACTGAC
TATAGCTACTTGCCTGAAAGCAGTTTTATTGGAGCAGCTATTGGCTTCTTCATTGCAGGAGGAAAAAAAGGTCCT
GAATCTGTGCCTCCTTCCCTTCTTAAAGTAGTGATGAAACCCATAGCAACTGTTGGAGAAAGCTACCAATATCCT
CCTGTGAACTGGGCTGCACTTCTCTCTCCACTTATGAGGCTAAATTTTGGTGAAGAGATCCAGCAACTGTGCCTT
GAAATTATGGTGACCCAGGCACAGTCATCCCAGAATGCAGCTGCACTATTGGGCTTGTGGGTGACACCACCACTG
ATCCACAGTCTGAGTCTGAATACCAAGAGATATCTCCTGATATCTGCACCTCTGTGGATAAAACACATCTCTGAT
GAACAGATCCTGGGTTTTGTTGAAAATTTAATGGTGGCAGTTTTTAAAGCAGCTTCCCCACTTGGAAGTCCTGAG
CTATGCCCAAGTGCTTTACACGGTCTGAGCCAGGCCATGAAACTGCCCAGCCCTGCCCACCACCTCTGGAGTCTG
CTCTCTGAAGCTACTGGGAAAATTTTTGACCTCCTGCCAAATAAGATTCGGAGAAAGGATCTAGAGCTGTATATC
AGCATAGCAAAATGCCTCTTAGAAATGACAGATGATGATGCCAATCGGATCGCCCAGGTTACTAAGAGCAACATA
GAAAAAGCTGCCTTTGTCAAACTGTACTTAGTCTCTCAAGGACGATTCCCCTTGGTGAACCTGACCGATATGCTG
AGCGTTGCTGTGCAGCACCGTGAGAAAGAGGTGTTGGCCTGGATGATTCTGCACAGCTTATACCAGGCACGGATT
GTGAGCCATGCCAATACGGGCGTTTTGAAGAGAATGGAGTGGCTCTTGGAACTGATGGGTTATATGAAATGTTGC
TTACCAGTCAACATCCTTTCACAATACGGCTCTTGACGAGGCTTTGGACTTCTTCTTGCTGATATTTGCAACCGC
AGTGGTTGCATGGGCTGACCACACTGCCCCTCTCCTCCTCGGCCTCAGTGCCAGTTGGTTGCCATGGCATCAGGA
GAATGGCCCGGCTGGGCCAGTACCAAGCTTCCTTGGCAGGAGTCCAATGCACAGGGTCACTCTGCAGGAGGTTCT
CACTCTCCTTCCCAATAGCATGGCTCTGCTGCTGCAGAAAGAGCCATGGAAGGAACAGACCCAGAAGTTCATTGA
CTGGCTATTCAGCATCATGGAAAGCCCTAAAGAAGCCCTCTCAGCACAGTCCAGGGATCTTTTGAAAGCCACCCT
GCTGTCCTTGAGAGTTCTCCCAGAGTTTAAGAAGAAAGCTGTATGGACCAGAGCATATGGTTGGTGAACAGTTTT
GCAGTAACCAGCAGCATTCTCAGCTGGATGAGGAAACCATATAAGTGGAAGAAGTTTTTCAGAATTCATGCCTG
GTATTGCTGAGACATGATGCAGAGAGTTAAGGGTCATGAAAAGATGGCCACATCACTGACAGCTTGACACATGCC
TCCTAAGAGAGGAGTGCATTGCTTTAGTACCCGGGCCAGTTGAGACTGAAACAGGAACTTGGATTTTCTTTATTT
GGCTTGAGTTCAATGTGGAGATTTTCTTTGTGAAAGCTTGAAGATATTATCTTCTCCCTGCTAAATTCCAGTAAA
ATAATGTTGTCAAAAAAAAAAAAAAAAAA
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FIGURE 2137

MKPIATVGESYQYPPVNWAALLSPLMRLNFGEEIQQLCLEIMVTQAQSSQNAAALLGLWVTPPLIHSLSLNTKRY
LLISAPLWIKHISDEQILGFVENLMVAVFKAASPLGSPELCPSALHGLSQAMKLPSPAHHLWSLLSEATGKIFDL
LPNKIRRKDLELYISIAKCLLEMTDDDANRIAQVTKSNIEKAAFVKLYLVSQGRFPLVNLTDMLSVAVQHREKEV
LAWMILHSLYQARIVSHANTGVLKRMEWLLELMGYMKCCLPVNILSQYGS

FIGURE 2138

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AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCTGTGCAGTCTAATTTTGAGCTGCCTCTTTGTAGTCTTAAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCCATGGCTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTCCTTATTAAGGGCCAG
TTTCTGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
GTGGAGAAGTGTACCGCACCCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGGAAGGAAAGTCAATAATGACA
ATTGTGGGACATACGGATGTTGTAAAAGATGTGGCCTGGGTGAAAAAAGATAGTTTGTCCTGCTTATTATTGAGT
GCTTCTATGGATCAGACTATTCTCTTATGGGAGTGGAATGTAGAGAGAAACAAAGTGAAAGCCCTACACTGCTGT
AGAGGTCATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAACTAAATTTTGCAGTGGCTCCTGGGAT
AAGATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
AAGAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCCTCTCTGGCCACATGGAGGCAGTT
TCCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTTAATTGTATTTCCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAACTAAAGATGGTTCTTTGGTGTCG
CTGTCCCTAACGTCACATACTGGTTGGGTGACATCAGTAAAATGGTCTCCTACCCATGAACAGCAGCTGATTTCA
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTCACCTACCACTTCCCATGTTGGGGCATGAAAGTGAACAATAATTTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTTGAAGTTTATAT
AATGTTTTCACCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTTGTATTTATAATAAGATAGGTTGTGTTT
ATGAAATACAAACTGTGGCATACATTCTCTATACAAACTTGAAATTAAACTGAGTTTTACATTTCTCTTT
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FIGURE 2139

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDFLIKGQFLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKVKALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSASWDHTIRVWDVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTDRHIRLWDPRTKDGSLVSLSLTSHTGWVTSVKWSPTHEQQLISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSVDWTDTGLLLSGGADNKLYSYRYSPTTSHVGA

FIGURE 2140

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CACCTCGCGGCCGTAGGCTAACGTGGAAGTCGGACCAGCCGGCCGGCGGAAGAACCTAGAGCGCGCTGCCTGGCG
AGTCAGGCGCGCGGGGCGGCGTTGGTGGTCTTCGCGGCGTAACTCGGCCTTTCCTGGGAGGGAGTGATGGGGCGC
ACCGGGGCCGGGGAGCGGGCGCCAGTGTAGCCCGCGCGGCGCCTGGCCCGGAGCGCGGCGGCTGCGGCGGCGGCG
GCGGCGGGCGCTGGAGGCCTGTGAGAGCCGCAGCCCGGAGCGCCCGGCTTCCCACGCCATGGCCCCCATGGGCAT
CCGCCTTTCCCCACTGGGGGTGGCAGTGTTTTGTCTGCTGGGGCTCGGCGTGCTCTACCACCTCTACTCGGGCTT
CTTGGCCGGCCGCTTCAGCCTCTTCGGCCTGGGCGGCGAGCCTGGCGGCGGCGCGGCGGGGCCCGCGGCCGCGGC
CGATGGGGGCACCGTGGACTTGCGCGAGATGCTGGCTGTGTCAGTGCTGGCCGCAGTCCGCGGCGGCGACGAGGT
GAGGCGCGTCCGCGAGAGCAACGTCCTCCACGAGAAGTCCAAGGGGAAGACGCGCGAGGGAGCCGAGGACAAGAT
GACCAGCGGCGACGTGCTGTCCAACCGCAAGATGTTCTACCTGCTCAAGACCGCCTTCCCCAGCGTCCAGATTAA
TACTGAGGAACACGTGGATGCAGCTGATCAGGAGGTTATCTTGTGGGATCATAAGATTCCTGAGGATATCCTAAA
GGAAGTAACTACTCCTAAAGAGGTACCAGCAGAAAGTGTTACTGTCTGGATTGACCCACTTGATGCTACACAGGA
AATATACAGAGGATCTTCGAAAGTACGTCACTACTATGGTGTGTGTGGCTGTAAATGGTAAACCCATGCTAGGAGT
TATACATAAGCCATTTTCCGAATATACAGCTTGGGCAATGGTAGATGGTGGTTCAAATGTGAAAGCCCGCTCTTC
CTACAATGAGAAGACCCCAAGGATCGTTGTGTCTCGTTCCCATTCAGGGATGGTCAAACAGGTCGCTCTTCAGAC
TTTTGGAAACCAGACTACAATTATCCCAGCTGGTGGTGCTGGTTATAAAGTTTTAGCACTTTTGGATGTGCCTGA
TAAGAGTCAAGAAAAGCTGATTTATACATCCATGTGACATACATCAAAAAGTGGGATATATGTGCTGGTAATGC
CATCTTAAAAGCCCTAGGGGGGCATATGACTACCCTGAGTGGTGAAGAAATCAGTTACACTGGTTCAGACGGCAT
TGAAGGGGGACTCCTTGCTAGCATCAGAATGAACCACCAGGCCCTGGTCAGAAAACTCCCAGATCTAGAAAAGAC
AGGACATAAATGAGCATAACTGATTACAGGGTACAGTTCTTCACAGCTGAAATGGTTAGCCTGAGATGCTGGAAG
CTTCAAAGGATTGGTGGAGACTATGCATGGTTAAGGCCATCCCGAACTTTTTAAAGTATTTATGAAGCATCAGAG
ACTTATTTTCCCTGTAATAGAATGCAAAATCAGGGAAAATGGGTTGCTTTGTGTCTCAAGTATTGTCTTTATTTT
TGAGACTATTTTCATACAGTTGTCATACACAAGGCGCATATATATTTGTGAATTAAAATCTGTAGCTGAGTCT
AAAAAAAAAAAAAAAAAA
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2422/2825
FIGURE 2141

MAPMGIRLSPLGVAVFCLLGLGVLYHLYSGFLAGRFSLFGLGGEPGGGAAGPAAAADGGTVDLREMLAVSVLAAV
RGGDEVRRVRESNVLHEKSKGKTREGAEDKMTSGDVLSNRKMFYLLKTAFPSVQINTEEHVDAADQEVILWDHKI
PEDILKEVTTPKEVPAESVTVWIDPLDATQEYTEDLRKYVTTMVCVAVNGKPMLGVIHKPFSEYTAWAMVDGGSN
VKARSSYNEKTPRIVVSRSHSGMVKQVALQTFGNQTTIIPAGGAGYKVLALLDVPDKSQEKADLYIHVTYIKKWD
ICAGNAILKALGGHMTTLSGEEISYTGSDGIEGGLLASIRMNHQALVRKLPDLEKTGHK

FIGURE 2142

GCGGTAGCGACAGGTCAGAGCTGCGGCCTGAGCAGCCAGCGTCCGGCATGAAGGTCTGGGGTCTGGCTGCTGCCT
GCTTCTTGCTCCAGCACC**ATG**GAATGCCTGCGCAGTTTACCCTGCCTCCTGCCCCGCGCGATGAGACTTCCCCGG
CGGACGCTGTGTGCCCTGGCCTTGGACGTGACCTCTGTGGGTCCTCCCGTTGCTGCCTGCGGCCGCCGAGCCAAC
CTGATTGGAAGGAGCCGAGCGGCGCAGCTTTGCGGGCCCGACCGGCTCCGCGTGGCAGGTGAAGTGCACCGGTTT
AGAACCTCTGACGTCTCTCAAGCCACTTTAGCCAGTGTAGCCCCAGTATTTACTGTGACAAAATTTGACAAACAG
GGAAACGTTACTTCTTTTGAAAGGAAGAAAACTGAATTATACCAAGAGTTAGGTCTTCAAGCCAGAGATTTGAGA
TTTCAGCATGTAATGAGTATCACAGTCAGAAACAATAGGATTATCATGAGAATGGAGTATTTGAAAGCTGTGATA
ACTCCAGAGTGTCTTCTGATATTAGATTATCGTAATTTAAACTTAGAGCAATGGCTGTTCCGGGAACTCCCTTCA
CAGTTGTCTGGAGAGGGTCAACTCGTTACATACCCTTTACCTTTTGAGTTTAGAGCTATAGAAGCACTCCTGCAA
TATTGGATCAACACCCTTCAGGGGAAACTTAGCATTTTGCAGCCACTGATCCTTGAGACCTTGGATGCTTTGGTG
GACCCCAAACATTCTTCTGTAGACAGAAGCAAACTGCACATTTTACTACAGAATGGCAAAAGTCTATCAGAGTTA
GAAACAGATATTAAAATTTTCAAAGAGTCAATTTTGGAGATCTTGGATGAGGAAGAGTTGCTAGAAGAGCTCTGT
GTATCAAAATGGAGTGACCCACAAGTCTTTGAAAAGAGCAGTGCTGGGATTGACCATGCAGAAGAAATGGAGTTG
CTGTTGGAAAACTACTACCGATTGGCTGACGATCTCTCCAATGCAGCTCGTGAGCTTAGGGTGCTGATTGATGAT
TCACAAAGTATTATTTTCATTAATCTGGACAGCCACCGAAACGTGATGATGAGGTTGAATCTACAGCTGACCATG
GGAACCTTCTCTCTTTCGCTCTTTGGACTAATGGGAGTTGCTTTTGGAATGAATTTGGAATCTTCCCTTGAAGAG
GACCATAGAATTTTTTGGCTGATTACAGGAATTATGTTCATGGGAAGTGGCCTCATCTGGAGGCGCCTGCTTTCA
TTCCTTGGACGACAGCTAGAAGCTCCATTGCCTCCTATGATGGCTTCTTTACCTAAAAAGACTCTTCTGGCAGAT
AGAAGCATGGAATTGAAAAATAGCCTCAGACTGGATGGACTTGGATCAGGAAGGAGCATCCTAACAAACCGT**TAG**

GAACAGCCCCGTGGATACTGAAGTTTTTTTTATGGTAGTTACAGGAAACTTCTGATACTCTTTTTATTATTTTCT
TGTATAGAGTCAGACACTTGAAAAAAACTAATGTTTGAAGACAAAAATATTTTGGCAGTCACAATACCAGAACTG
GATTGCATTTCCAGAATTYTGAGTTAAAGAAACAAAGTATTTGCTTTGTAAAAGGCCAAAATTYTATTTCCTACA
AACTTTAAATGCTGTTTTTATAGATGTGATATGAGGCAACACAAGCACAGACAGTTGCATAGATTTTAATTTATA
CATATCAAGAAAAGTGCAATTTCATGCTGAATGAAGCGTAGGAACTTGACAAGCCCATAGGTAGCTATAGTTCTT
TGTCAGTATAGGGAATTATGTTCATGTGAATTTCCTGATTCTCAGGTGACTAAAAAGCTAGCATTYTATGTATTA
ACCTTACAACAGACTCTGTAAGTTTGAGCTTTAAAAACCAAACTTTGACATAACCTTATTTCTTGTATTTGCCCC
CTTTTTTTTATAAAAGGTGAATAAAAAGAAATAATTTAATATC

2424/2825
FIGURE 2143

MECLRSLPCLLPRAMRLPRRTLCALALDVTSVGPPVAACGRRANLIGRSRAAQLCGPDRLRVAGEVHRFRTSDVS
QATLASVAPVFTVTKFDKQGNVTSFERKKTELYQELGLQARDLRFQHVMSITVRNNRIIMRMEYLKAVITPECLL
ILDYRNLNLEQWLFRELPSQLSGEGQLVTYPLPFEFRAIEALLQYWINTLQGKLSILQPLILETLDALVDPKHSS
VDRSKLHILLQNGKSLSELETDIKIFKESILEILDEEELLEELCVSKWSDPQVFEKSSAGIDHAEEMELLLENYY
RLADDLSNAARELRVLIDDSQSIIFINLDSHRNVMMRLNLQLTMGTFSLSLFGLMGVAFGMNLESSLEEDHRIFW
LITGIMFMGSGLIWRRLLSFLGRQLEAPLPPMMASLPKKTLLADRSMELKNSLRLDGLGSGRSILTNR

FIGURE 2144

GTGGTGCTTGTCTGCAGAGTC**ATG**ACCTCTTTCCGCTTGGCCCTCATCCAGCTTCAGATTTCTTCCATCAAATCA
GATAACGTCACTCGCGCTTGTAGCTTCATCCGGGAGGCAGCAACGCAAGGAGCCAAAATAGTTTCTTTGCCGGAA
TGCTTTAATTCTCCATATGGAGCGAAATATTTTCCTGAATATGCAGAGAAAATTCCTGGTGAATCCACACAGAAG
CTTTCTGAAGTAGCAAAGGAATGCAGCATATATCTCATTGGAGGCTCTATCCCTGAAGAGGATGCTGGGAAATTA
TATAACACCTGTGCTGTGTTTGGGCCTGATGGAACTTTACTAGCAAAGTATAGAAAGATCCATCTGTTTGACATT
GATGTTCCTGGAAAAATTACATTTCAAGAATCTAAAACATTGAGTCCGGGTGATAGTTTCTCCACATTTGATACT
CCTTACTGCAGAGTGGGTCTGGGCATCTGCTACGACATGCGGTTTGCAGAGCTTGCACAAATCTACGCACAGAGA
GGCTGCCAGCTGTTGGTATATCCAGGAGCTTTTAATCTGACCACTGGACCAGCCCATTGGGAGTTACTTCAGCGA
AGCCGGGCTGTTGATAATCAGGTGTATGTGGCCACAGCCTCTCCTGCCCGGGATGACAAAGCCTCCTATGTTGCC
TGGGGACACAGCACCGTGGTGAACCCTTGGGGGGAGGTTCTAGCCAAAGCTGGCACAGAAGAAGCAATCGTGTAT
TCAGACATAGACCTGAAGAAGCTGGCTGAAATACGCCAGCAAATCCCCGTTTTTAGACAGAAGCGATCAGACCTC
TATGCTGTGGAGATGAAAAAGCCC**TAA**AGTTTATGTTTCTAATGTGTCACAGAATAGGACGATATGATTCTACAA
CATAATCAACTCCCTATTAAATTCTTTAATGAAGAAAAAAATTTAAAAAAAAAAAAAAAA

2426/2825

FIGURE 2145

MTSFRLALIQLQISSIKSDNVTRACSFIREAATQGAKIVSLPECFNSPYGAKYFPEYAEKIPGESTQKLSEVAKE
CSIYLIGGSIPEEDAGKLYNTCAVFGPDGTLLAKYRKIHLFDIDVPGKITFQESKTLSPGDSFSTFDTPYCRVGL
GICYDMRFAELAQIYAQRGCQLLVYPGAFNLTTGPAHWELLQRSRAVDNQVYVATASPARDDKASYVAWGHSTVV
NPWGEVLAKAGTEEAIVYSDIDLKKLAEIRQQIPVFRQKRSDLYAVEMKKP

FIGURE 2146

CGGAAGCAGGAAGTGAGTTTGCGAACGGAGCAGCTGCTGCAGGGCCC**ATG**GCGGACACCCAGTACATCCTGCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCCGCCTGCTGTCACCCACAGAGCGCCTCTATGCCT
ACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCTGGCTGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAGGACCCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTCCTGGTCTATGCCGCGGGTGTTTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCCAACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCCAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTTCTCTGGGAATTGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCTCAGTGCCTACAACACCCGGCTCTTCAAAGAGGTCGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCCGGGGAAGCCCTTTCCAGGTGACCCGGGGGGACTACGCGCCCATCCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCCAGTATATAGAGAGCT
TCACCCAGGGCTCCATCGAGGCCCACAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCCATCGTGGAGA
GTTACATCGGGTTCATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGCTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTCCTCACCCCTGACTTCACCTCCCTGGATGTTCTCACCTTCGCTGGCTCCG
GCATCCCTGCCGGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCGCTGG
GGAATGTGCTGGCTGTGGCCTACGCCACGCAGCGGGAGAAGCTTACCTTTCTGGAGGAGGATGACAAGGACCTGT
ACATCCTCTGGAAGGGGCCCTCCTTCGATGTGCAGGTGGGCCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAACTGGCTCAACATGGTTCGGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCATATGCAGGCCCGGTTTGTGATCCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCCACCACAGGCTCCGATGGGCGCCCAGATGCCCGGGTCCGCCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCCGAGTGCTTCCTCACCCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTCAGCCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCCGATTCTGGAAGGGCCCCAGTGAGGCCCCATCTG
GCCAAGCT**TGA**GGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTCGTG
TGTGTATTTAGGGGCTGGGGAGGGGGAGGGGCAGGAGCTTGGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTCAGCACTTTCCAGCCTGCCAATTGCTTCCCCTCTGTGATCTCATTTCATCTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCACGTGACAGCTAGGGTTCAAAACGTTCTCACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAA

2428/2825
FIGURE 2147

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGLAVLLQTSPEAPYIYALLSRLFRAQDPDQL
RQHALAEGLTEEEYQAFLVYAAGVYSNMGNYKSFGDTKFVPNLPKEKLERVILGSEAAQQHPEEVRGLWHTCGEL
MFSLEPRLRHLGLGKEGITTYFSGNCTMEDAKLAQDFLDSQNLSAYNTRLFKEVDGEGKPYYEVRLASVLGSEPS
LDSEVTSKLKSYEFRGSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKRGSRFW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLTFAGSGIPAGINIPNYDDLRQTEGFKNVSLGNVLAVAYATQREKLTFLEEDDKDLYILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLNMVRAGLLALEFYTPEAFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGSDGRPD
ARVRLDRSKIRSVGKPALERFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLTLRDTVLLRKESRKLIVQP
NTHLEGSDVQLLEYEASAAGLIRSFSERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

FIGURE 2148

GACCACTGGTAGCGGCAGCAGCTCGCGCCCGCGCCCTCCTCGTACCCGTGCGCCCCCGGAGACCGATCCCGCCCC
GCGGCCCAGGCCGGGCCTGAACCCAGCGGGTGCCGCTTCTCCACCCGAGGCTTCCACCTCCAACGAGCC**ATG**TTC
CAGGCTGCAGGAGCCGCCCAGGCCACCCCCTCTCATGACGCCAAAGGCGGCGGCAGCAGCACGGTGCAGCGCTCC
AAGTCCTTCAGCCTGCGGGCCCAGGTGAAGGAGACCTGCGCCGCCTGCCAGAAGACCGTGTACCCCATGGAGCGG
CTGGTGGCCGACAAGCTCATTTTCCACAACTCTTGCTTCTGCTGCAAGCACTGTCACACCAAGCTCAGCCTGGGC
AGCTACGCCGCGCTGCACGGGGAGTTCTACTGCAAACCCCACTTCCAGCAGCTGTTTAAGAGCAAAGGCAACTAC
GACGAGGGGTTTGGCCGCAAGCAGCACAAGGAGCTCTGGGCCCACAAGGAGGTGGACCCCGGCACCAAGACGGCC
TGAGGCCTCTGTAACCTTCCACCCCCTCTGCGGAAGGCCTGGAGCCGGCAGGGGGAAGGTGGGAAGGAGGTCGAG
CTGGGCTTGCGTGGGGGCCAGGTGGGAAGGGGATGAGGCTTGCTCAGGCGTAGGGGACCAGGGCAGGGCTCTGCT
CCAGGACTCCTTCCTTCTTCCTTCTCCCGCAGCCGGTGAGGGTTTGGAAACCAGGATTGGGGTCTGCCCACCACC
CTGCTTCCTGCTTCGTTCAGCCTCCCTCCCCACCTCACCCCAGGACCCCCTGGGAGGCCCCCAAGCCCAGCTCCC
CTATCTAGGTGCCTTTTCTCCAGCAAGGAGTCAGCATGCCCCCCTCAGGGTCCCAAGCTCCCTCACTGCCACCGG
AGACTGTGTGGCCCCCACGTCTCCCCATCTACCTCTACCCTTAACCTGTTTCTGAGCCACGGAGACAGGGAGGAA
GGAGCGCGACAGTGCCACCTGTTGGGCATCATAAATGCCCCTGCAGCCCATGGGGGAGGAGATGGGGAAGTGGAG
CCACCCTGCCTCTGCAGGGCAAGGCAGGGCCTGCCCCAGTGGGGCTTGGGACCATCTCGAACCACCAGCGTGGAG
AAGCAGAAGCAAAAGCACTCGCCAGGCTGCAGCCTCAGGCACTGGCAGGGGCTGGTGCGGCCCCACTCCCTCCC
CCGCTCCCATTTGTGCCCATCCTGTTGTGACCAACCCCGTTTTAAACATGTTTCAATAGATCCAGATTCTCTATT
GTGTGGCCTGCTGGGGGATCTGTCACAGGAAGGGTGCAGACTCACCATGGGGCGGGCATGGGGGGACAGGGCCAG
CCCCGACTACCTCGGCCCTGATGGGGGCAGGGAGCTAGAAGTGGGTGTCAGTTCCCTGACACACCATTGAGAAAT
GGGAGGGCTCCTCTTCACAGCGAGGGCTTCATGCTGTCACACCCACAGTGGTTTTGGAACTGAAACTCCACCTCA
CCCCTCAGTTCTGGGTTGGTTCAGACCCACCAACTTACCATATGCACCCCATTGTGAAGAGGCCTGAGAGCGGGA
GGGCCAGGCTGCCAGTGGGTGATGGCGCCTGTCCTCGCTGCACTTCAGTGCCTGGGGTGCAAGCTGCCGCGTTCC
CTGGCTGGTTCCAGCTGTCTAGCTCCCTCCCTTCTTCCCAGCCCTTTGACCTGGAAGTAAGTTAGCGAAGAATGG
CGGTAACCAGCAGACCCAGCAAGTGCTGCCCAAGGTTTTAGTGACCCCTGGATTGTCCCCCCTCATCATTACCCC
TCGCTGCTGTCATCATCCCCTTGCCTTTTCAAGCTCTGCGGAGGTGCAGTCACAGCTACTGTCTCAGGAAATCCA
AAGAGAAACTACCTCTGCTTCTCTGAAAACCCAGGGACAATGAGGGATGAGTTCACAGCAGAGCAAACCAGGCAA
GTTGGGAGGACCTGAGGGCGCCCCGGTGGGACACAGGCAGAAGTCTGGGTTGTCCTGCTCCAGATTCAACTTCCT
GATGTCTCCAGACATGGGATCGATGAGAACAGAGACTCCTGGAGGGTTTGCTGCCACCACACCATACAACTGCCT
GAGTTCCTAAGTGGCCTCCCCGTGGAACAGGGCAGGGAGCTGGGCCACAGGCTCCAGTGTCACATAAGTCACTAT
GCTGAGGCAGGCACTGCTCCTCGAGGGAGCAGAGCGAATACTCAGCAGAGATGGTGCCCCGGCCTGGATCCTCCC
AAGTGTGAAGTGAGCGCCTCAGAGCCTCTCAGGGCAGGCCAACTTCCTGCACCAGAGGTCTCAGATGGCAAGGAT
CATCTTGGTTCGGTTAAGCAACAGTAGCAGATGACCACAAGGGGGTACTGGAGAGGTGGCTCTTGGAGACACCTG
ACCCCTGCCCTGCAAAGATGGGGCTGAAGGAAGTCCTCTGGGCCAGGAAGACCCTACCAAATATCATGAAAGCTC
CGGGAACTCAGCCACTGGTGACGTTCAGGTTGTGAGGGCCAGCAGTGCCACCCTGGTAAATCAGCCCTGTTGGGA
CCACCCCAGTGGAGCTCCTGGAGGGGCAACTGGAGGAAAGGGGCAGACACCTCTGGACTGACAATGGTATCAGCC
AGATCACCCCAGGACCCCTCTACTTGGAGTCAAGTTCTCTTCTGCTTGAAAGGCCCAGGCTCGTTGCCAGGCACC
ATACCTGGCCCCTGCTAAGCAAAAACCTACCTCCACCCCCCACAACTGAAAGCACTGCCACAGGACCCCTCTGAT
ATAAATGATCCCTTTTATTGTAAGTAATGCGCAACACTGGCCTGGCTTTGCACTGCAAGCCCTCGGTCAAGATAT
AGTCAAATAACTATGGCTGCAGGTTCCACAGTTCCACAATAACCATGGCTGCACGATCCACAATTCAGACACAGA
CATAGAGCTGGGGTGGGTGGAAGGGGCAGGAGGGTGGCAGAGTGCGGACTGTCCCCAGCCCTGGCCTCTCCATGC
AGAGTTGGCCCAGGCAGACACACCCCATGGAATGATGAGAAAGTGACGGCACGGCCCCTTCCCACAGCAAGCCTG
GGGCTGCCAGGAACTGCCCTTCAGAACCTTTGGGCCCAGGTCACCCTGAAGCCCCACAACTTTTTATCTGGATTA
GTTATTAAAAAACAATAAATTAAGCAAC

2430/2825
FIGURE 2149

MFQAAGAAQATPSHDAKGGGSSTVQRSKSFSLRAQVKETCAACQKTVYPMERLVADKLIFHNSCFCCKHCHTKLS
LGSYAALHGEFYCKPHFQQLFKSKGNYDEGFGRKQHKELWAHKEVDPGTKTA

FIGURE 2150

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GACCCGAAACGGGGAAGTTGTCTTGTTTGGAGAGGTTAGTAGAGCAGCGCGCGCGTCACCAGAGTCGTTTCTCTT
CGGAGTCTTAGGTGATCGAGGGTGTGCCCAGGGGGCGGACTTGTTTGCGCCTCCCGTTCCCTCCCAATTTCCAAA
CGTGTCACCCCGGCGCCGACGGCCCTGTGCAGGGGAAGCAGATGGAGTTCAAGCTGGAGGCTCATCGCATCGTCA
GCATCTCTCTGGGCAAGATCTACAACTCGCGGGTCCAGCGCGGCGGCATCAAGCTGCATAAGAACCTCCTGGTCT
CGCTGGTGCTGCGCAGCGCCCGCCAAGTCTACCTGAGCGACCCGTGCCCCGGCCTCTACCTGGCCGGTCCCGCTG
GGACCCCGGCGCCGCCACCGCAGCAGCAGCCCGGGGAGCCGGCGGCCGGGCCACCCGCCGGCTGGGGAGAGCCGC
CCCCGCCCGCCGCTCGTGCCTCTTGGCCGGAGACCGAGCCGCAGCCGGAGCGCTCCTCCGTCTCAGACGCGCCGC
GGGTAGGGGACGAGGTGCCGGTGGCCACGGTGACTGGAGTCGGGGACGTTTTTCAGGGCGGAGAGGCGGACGCGA
CGGAAGCTGCCTGGAGCCGCGTGGAGGGGCCGCGCCAGGCGGCGGCCAGAGAAGCCGAGGGTACCGCCGGAGGCT
GGGGCGTCTTCCCCGAGGTATCTCGTGCCGCGCGCCGCCCCTGCGGCTGCCCCCTAGGCGGGGAGGACCCGCCGG
GTACACCGGCCGCGACCCCCCGCGCTGCCTGCTGCTGCGCGCCGCGACCAGCGGAGGACGAGCCCCCCGCGCCGC
CCGCGGTGTGCCCCAGGAAGCGCTGCGCGGCGGGGGTGGGCGGCGGCCCAGCGGGCTGCCCGGCGCCCGGCTCGA
CCCCGCTCAAGAAGCCCCGCCGGAACTTAGAGCAGCCGCCGAGTGGAGGAGAGGACGACGACGCGGAGGAGATGG
AGACCGGGAACGTGGCTAACCTCATCAGCATCTTCGGTTCCAGTTTCTCGGGACTCCTACGGAAAAGCCCCGGGG
GCGGCAGAGAGGAAGAGGAGGGAGAGGAGAGCGGTCCGGAAGCCGCCGAGCCCGGGCAGATCTGCTGCGATAAGC
CGGTGCTGAGAGACATGAACCCCTGGAGCACAGCCATCGTGGCCTTCTGAGCCCTTGGTCCCCCTGCGGGGAGGA
GGTGGAGCAGCGGGCGTCCCCGAAGTGAGGGCCAGGCCCTTCCCGGCTGCGAGGACGCCCAGAGACCGCGGGCGC
TGAGCGCGTTGGGCAGACTGGTTGCCTCTGGGCATCGCAAACTGCCCCCGGGGCGCATCTGGCTTATCTGGAGACC
TGGGAGCTTGAGGCTCATTGGAAGAGGACGATCGTTAACTTTTGTGTTTGTGTATGTCTGTGTATGTAAGTTTGT
CTTGTGGCATTAAGACTATTTTGCTCTTCTGGAATGCACCACTCCTTCCCCAGGGTTTAAGAGATTGGGGGCAGA
CAGGGACTTTCCTCTGCCGGCTGCGTGGAGAAGGAAGCGGCTAAAAGGTTTGGGCCGGGGAGTTCCCCATTCGTT
CTCCGGGGAGGGAGGGACTTTACACCTACCCCTCACCGGAAAGCTAGACCCGCTTCAGGGCCAGGAGTGGCGTTT
CCGCACAGGATTTCCTAAGACGAGAGGGATTTAGCCAAGAGCACAGACTTGGATTCCTTCTGTCCCTCCCCACCT
TTCTCTCCCAATGAAGAAACGTTTATATCCTGTGATTACTCTAGGAAAGGGGCGTATTAACGGTCCTTTGCTTCC
CCGCAGGGGAGAAAAGCTTGACGAACTTCACAGAAGAGTTCAAGCTTGGAAATAATGGAGTTTATAGAGAAAG
ATATATTTTTAAAAGCTCTAGGTCAGAAGTACTACACAGTGCTTTTAAAAAGTGTTTAATGAGAGTTTACAGACA
GAAGCCCGAAGTGGAAAGACCTTATGGTTTTGTAGATATGGTGACTCCAGTCTTTGTTGTATAAAGGTTGGGGGA
GCTGATAAGGTTTTTGTACAGTATTTTCTCCTTCGTTGTATTGATTTTTGTATAAAAATGTAACTTCTACGTGTC
TAACACGTATTAAATATTTTGAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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2432/2825
FIGURE 2151

MEFKLEAHRIVSISLGKIYNSRVQRGGIKLHKNLLVSLVLRSARQVYLSDPCPGLYLAGPAGTPAPPPQQQPGEP
AAGPPAGWGEPPPPAARASWPETEPQPERSSVSDAPRVGDEVPVATVTGVGDVFQGGEADATEAAWSRVEGPRQA
AAREAEGTAGGWGVFPEVSRAARRPCGCPLGGEDPPGTPAATPRAACCCAPRPAEDEPPAPPAVCPRKRCAAGVG
GGPAGCPAPGSTPLKKPRRNLEQPPSGGEDDDAEEMETGNVANLISIFGSSFSGLLRKSPGGGREEEEGEESGPE
AAEPGQICCDKPVLRDMNPWSTAIVAF

FIGURE 2152

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TGTTTGGTATATTTAAAGCAGTGACTGAGTGTGTTTGAGTGAGTGGCTGAGTGCAGTGTCTTTTGTTTAAACACA
CTGCCTCGTGTCTTTGTAGCTGATTCAGAGAGTTTGAATTGTGGGGTGGGAGACTAACTTCAGCTCCAGGCTGCA
GTAATGTGTTGGTAGTTACACTTGAGGCATTTTTTTGTTGTTGTTAATTAACTCTATAGTCTCAAACTATTTTTG
CAAATATATCATTTTTCCTAATTGGTTCTTGACGTGCAGTGGACTGGCTCTGTGAATGATTGGCAGGGTCTTAGT
TTTGCGAGAGCATTTCCTTCTAAGAATTATTGTGATCTGCAGAAACAGCCATTTGATTCAAAAATCATGTAGAAA
AGGAGTAGGAGAAGCAAAACGTTTCATTTTTGGGCCTTAACCATTTGAAATGTTTGGACTTTAAACATAAAGCCA
TGGAGTTTATAAAGCCAAGTAACCATTTGATATGGATAATAATATCTACTCTAGAGAGTATATATATGCACAT
TGATTTTTAATGCTGTTAAGATACTTTTGTAAAACTGTAGGAACAAGAGTAATTAGACCAAATTGAAGCTTAGGG
GACAGTAAAGTGGTTGCTTTCCATTTAGGGTAACCATGCATGTGGTTAGTCCTCTCCTCCTGAGATTCAGAACCA
GTTGACTGTCCCCTTAGGTGTATAAGGAGAAAAGTTGACATGTCTGGGACCTCTGACATGTGTACACATGCTTGC
ACACATGCACACACAGTGAATGTTTTAAGTTATACAAACATAAGACCTTAAGATGCAAAGAGCCAGAATATTCTA
AAGAGGTGATGAACAGAGGGGGTGGAAACTGCATCACAGATGTTTTCCAAGGGCCAGGGTGGAATCTGAGCTCTA
GTGTCTGACTTTGAGATGCATTATATTTTTAACACATAAATGAGGGGATCCATATCACATTCTTTCTTGTGGACC
ACCAAATTGAAGGCTTTCTTGTAATTCACAAGCAGCAGCTCTCCAGCATCTCTCCGTAGCCTGGGTGAAGTCCCA
GAAGCTGGTGTGCATCATTTTCCAAGGTGGCAGAGCTGCTTGCTCTGCAGATCATTCCTTTGAGAGAGGAGTACA
AGTGAAGAAACAAGGAGGCACTTCCTGTAGGAGCACTGATGTGCCTTGTCCACACTCCCCTCTGAGCTTTACTGG
TAAGAGAGCTCCGACTGAACATGCTGAGCAGTTGAGCACTTTTCCATCAGCAACAACAGCGAGGATGGAAATGGA
AAGGAACCGAACTAAAATGCATTTCCCTTTGCAGGGCAGAGAGCTAAGCTCTTAGGAATAGTGTTATAGAAATAA
GCACCCTAACTTCAATTCCTGAAA**ATG**TTGGTTAATGGAGAGAATTTTGGAGTTTCACTTAATATTTTCCCATCG
GTCGCCATAAATAAGTCTTCAGGCGCTCCTAGAAGAGTCCCAGCCCAAGGCTCGATTAAGGACCACACTGCAGGT
CTGAGGCTCACTGCTCTGAGTCCTGAACACCAGAGCCCTGCAGAGAGTGGTGATAACACATCATCTCTGCAAAGA
GGAACCTCTCCCCCGGCCGCCACTTCACTCAGGCTTCTACTGAGCAGCAAGGACAGCCTGGGTTTCAAATGCCAC
TTCCCCTGCTTTAGGGATCCAGGTGTCCTGATAGCG**TGA**CCCTGCTGAGGCAAGGTATCAACTCCGAGAGTGACT
GAGTCACTGAGCGTGGCACATGAACAAACGTCATGACAAAGATTCTCTGAGTGAAGTTAACACCACGTATTTTAC
CTTTGCAAAAAACAAACTGGCACCCTGAGTTCTAACTACGGACGGACGATATCTTTGCCTCCACACCCAGATTCC
TGGAAATGGCTAACGTTTCCTTTCTAGGGGAAGGGTCGAGGAATACTCAAGTGCTAGCTTAGCAGCTTTGTTCAG
TCCAGATCAGAGCTGTTAGGTAAAGGCCTAACCACCTCCCTGCAGTCTCTTATATCTCAAGCTTTAGGAACCCAT
TTCTAAATGTACACTAGCGGAGAATTTATATTGTCAGCCTTGATTACCATAGGACAGGCAGAAAGGCGATAATTT
GTATCTTTTAATATAAAAGAAGCTTTTAACTTTTCCAGCCTATTATAATAACTGAGTTATATTCACTGTGGCTCA
AACTAATTGGCATTGTGGAACATTTCTTTACCTTCAAAGTTTTCTCCACCAATCATTTCAGTTCTATTGCAGTCC
TGGTGCCATATGTCCCCTGCAAATTGTGAAAGTAATTAGTGACAAAATAGCAGCCTGCTCCTTTTCAATGGCGAA
ACTGTCGGCATTAGCAGTTTTGGGTAAGCTGGCGGTACTATAACACGTACTGGAAACCTGTTCCTCATCACCACC
TACCAGATTCTGGAAATGCCGTCTTCTAGAAACGATGGCGTTTGTGGTGGTCTTCTTTTGAAAGGAACAGTAAT
TTGTGTGGATATTGTTAAAGTGTTTAAAGAATATTTTGACAATTAAGTTTACATTTTACAATTGCTTTATTTTTT
ATTAAAATAGTTGTATATAAATATTACCCTATTTCACTGTTGTTCAAGTAAATCTAAACCTTGTAGACAAGTGAG
TCATCTGATATGTATAGAAGCTGTGATATATAGAGTACATTTATTGTGTAAATGTTTATGAATATAATTGTTCCT
GTGTTTTTATAAGTTGGGGATATTTGTTGTTTTACGGCAACAAAATTTATTGCATTTAAATGGTTTTTATGTAA
TAGAAATCACGCAAAATAGTGAAGGATTTAAAATATGTATATGATACATGTAAATGTACAAACTTTAGAAAGAAA
TAAATCCAACAAATTTCAAAAAAAAAAAAAAAAAAAA
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FIGURE 2153

MLVNGENFGVSLNIFPSVAINKSSGAPRRVPAQGSIKDHTAGLRLTALSPEHQSPAESGDNTSSLQRGTSPPAAT
SLRLLLSSKDSLGFKCHFPCFRDPGVLIA

FIGURE 2154

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CAGTTAGCTTCAAACAAAAACGAAAGTTAGACCAAGGGAACGTATTAGATATGGAAGTAAAGAAAAAGAAACATG
ATAAACAAGAACAGAAAGGAAGTGTGGGAGCTACATTCAAATTAGGTGACTCTTTGTCAAACCCAAACGAAAGAG
CCATTGTTAAAGAAAAGATGGTATCAAATACTAAGTCTGTAGACACGAAAGCGAGTTCATCTAAATTTAGTAGAA
TTCTAACTCCTAAGGAGTATTTACAAAGGCAGAAGCATAAAGAAGCTCCGAGTAATAAAGCATCGAAGAAAATCT
GTGTGAAAAACGTGCCATGTGATTCTGAACATATGAGACCAAGTAAACTTGCCGTGCAGGTTGAAAGTTGTGGGA
AATCAAATGAGAAACACAGCAGCGGCGTGCAGACCTCTAAAGAATCATTAAATGGCTTGACAAGCCATGGTAAAA
ACCTCAAAATCCACCATTCTCAGGAGTCTAAAACATACAACATTCTAAGGAATGTTAAAGAAAAGTTGGTGGGA
AGCAGCCTGATAAAATATGGATTGATAAGACTAAATTAGACAAATTAACCAATATAAGCAACGAAGCTCAATTCA
GCCAAATGCCTCCCCAAGTAAAGGATCAAAAGAAATTATATCTGAATAGAGTTGGGTTTAAATGCACTGAACGTG
AAAGCATTTCTCTCACCAAATTAGAAAGTTCACCCAGGAAGCTTCATAAAGATAAGAGACAGGAAAATAAACATA
AGACCTTTTTACCGGTGAAAGGTAACACAGAAAAATCAAACATGCTGGAGTTTAAATTATGTCCAGATATCTTAC
TAAAGAATACAAACTCTGTGGAAGAACGGAAGGATGTAAAGCCTCATCCTAGGAAGGAGCAAGCCCCTCTGCAAG
TTTCAGGAATAAAAAGTACAAAGAAGACTGGTTAAAATTTGTTGCTACAAAGAAAAGGACACAGAAAGACAGCC
AAGAGAGAGATAATGTTAATTCAAGACTCTCGAAGAGAAGCTTCAGTGCAGATGGATTTGAGATGCTACAAAACC
CAGTAAAAGATTCAAAAGAAATGTTTCAAACCTACAAACAGATGTACCTGGAGAAGAGAAGCAGAAGCCTTGGTA
GCAGTCCTGTAAAATAATTACAAGATGTGGTTTTGTAATTGCCACTGGGAAATTTCTTTCCTTTTCTGTTCAAAA
TATTTCGCTGAAACTAATGAGAAATGCCATGATAAAGATTTCTCAGAGTTTGGTTCCCACTTTCATTGTATTTCA
TTGAAAGTGCTTAATTAAAATGGCTTGAGAACTTTGGGTAGCCATGTGTAAGAAATGGATGGTATTCACCGGGGA
AACAAGGTATTTGAATTCTACTTTATTGAACCAGATTTACCATTATTTTAAAAGGAATGCTTATACAAATCAAT
TTGAAATTCTACCCATCTTGAGGGAGGACCGTTCCTCAGTTAAGGACTTGTTTATTTAAATGGGACTGTAAATAT
GTTTTGGTTTCTAAGCTATATTAGCAAAATTTATTTTTCAAAAACGCCCACTGTGATGTGAATGTCAAAATATAT
TCTTAAGTGTTTTATAACTAATTGTAAACTTTTTTTCAGAAGTCTTATTTTATACTTGTGAAACTGAACACAATT
TTGGGACAACGTTTAAACATTACTTTTCATACTTGAAATAAACATTTATTTTTTAAAAAACT
```

FIGURE 2155

MEVKKKKHDKQEQKGSVGATFKLGDSLSNPNERAIVKEKMVSNTKSVDTKASSSKFSRILTPKEYLQRQKHKEAP
SNKASKKICVKNVPCDSEHMRPSKLAVQVESCGKSNEKHSSGVQTSKESLNGLTSHGKNLKIHHSQESKTYNILR
NVKEKVGGKQPDKIWIDKTKLDKLTNISNEAQFSQMPPQVKDQKKLYLNRVGFKCTERESISLTKLESSPRKLHK
DKRQENKHKTFLPVKGNTEKSNMLEFKLCPDILLKNTNSVEERKDVKPHPRKEQAPLQVSGIKSTKEDWLKFVAT
KKRTQKDSQERDNVNSRLSKRSFSADGFEMLQNPVKDSKEMFQTYKQMYLEKRSRSLGSSPVK

FIGURE 2156

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TCTGAAGCGAATCAGTGGGAAGTGGCCTACAGTGGGTCGGCTACCGAATACACCTTCACCCACTTGAAACCAGGC
ACTTTGTACAAACTCCGAGCATGCTGCATCAGTACCGGCGGACACAGCCAGTGTTCTGAAAGTCTCCCTGTTCGC
ACACTAAGCATTGCACCAGGTCAATGTCGACCACCGAGGGTTTTGGGTAGACCAAAGCACAAAGAAGTCCACTTA
GAGTGGGATGTTCCTGCATCGGAAAGTGGCTGTGAGGTCTCAGAGTACAGCGTGGAGATGACGGAGCCCGAAGAC
GTAGCCTCGGAAGTGTACCATGGCCCAGAGCTGGAGTGCACCGTCGGCAACCTGCTTCCTGGAACCGTGTATCGC
TTCCGGGTGAGGGCTCTGAATGATGGAGGGTATGGTCCCTATTCTGATGTCTCAGAAATTACCACTGCTGCAGGG
CCTCCTGGACAATGCAAAGCACCTTGTATTTCTTGTACACCTGATGGATGTGTCTTAGTGGGTTGGGAGAGTCCT
GATAGTTCTGGTGCTGÀCATCTCAGAGTACAGGTTGGAATGGGGAGAAGATGAAGAATCCTTAGAACTCATTTAT
CATGGGACAGACACCCGTTTTGAAATAAGAGACCTGTTGCCTGCTGCACAGTATTGCTGTAGACTACAGGCCTTC
AATCAAGCAGGGGCAGGGCCGTACAGTGAACTTGTCCTTTGCCAGACGCCAGCGTCTGCCCCTGACCCCGTCTCC
ACTCTCTGTGTCCTGGAGGAGGAGCCCCTTGATGCCTACCCTGATTCACCTTCTGCGTGCCTTGTACTGAACTGG
GAAGAGCCGTGCAATAACGGATCTGAAATCCTTGCTTACACCATTGATCTAGGAGACACTAGCATTACCGTGGGC
AACACCACCATGCATGTTATGAAAGATCTCCTTCCAGAAACCACCTACCGGATCAGAATTCAGGCTATAAATGAA
ATTGGAGCTGGACCATTTAGTCAGTTCATTAAAGCAAAAACTCGGCCATTACCACCCTTGCCTCCTAGGCTAGAA
TGTGCTGCTGCTGGTCCTCAGAGCCTGAAGCTAAAATGGGGAGACAGTAACTCCAAGACACATGCTGCTGAGGAC
ATTGTGTACACACTACAGCTGGAGGACAGAAACAAGAGGTTTATTTCAATCTACAGAGGACCCAGCCACACCTAC
AAGGTCCAGAGACTGACGGAATTCACATGCTACTCCTTCAGAATCCAGGCAGCAAGCGAGGCTGGAGAAGGGCCC
TTCTCAGAAACCTATACCTTCAGCACAACCAAAAGTGTCCCCCCCACCATCAAAGCACCTCGAGTAACACAGTTA
GAAGGAAATTCATGTGAAATTTTATGGGAGACGGTACCATCAATGAAAGGTGACCCTGTTAACTACATTCTGCAG
GTATTGGTTGGAAGAGAATCTGAGTACAAACAGGTGTACAAGGGAGAAGAAGCCACATTCCAAATCTCAGGCCTC
CAGACCAACACAGACTACAGGTTCCGCGTATGTGCGTGTCGTCGCTGTTTAGACACCTCTCAGGAGCTAAGCGGA
GCCTTCAGCCCCTCTGCGGCTTTTGTATTACAACGAAGTGAGGTCATGCTTACAGGGGACATGGGGAGCTTAGAT
GATCCCAAAATGAAGAGCATGATGCCTACTGATGAACAGTTTGCAGCCATCATTGTGCTTGGCTTTGCAACTTTG
TCCATTTTATTTGCCTTTATATTACAGTACTTCTTAATGAAGTAAACCCAACAAAACTAGAGGTATGAATTAATG
CTACACATTTTAATACACACATTTATTCAGATACTCCCCTTTTTAAAGCCCTTTTGTTTTTTGATTTATATACTC
TGTTTTACAGATTTAGCTAGAAAAAAAAATGTCAGTGTTTTGGTGCACCTTTTTGAAATGCAAAACTAGGAAAAGG
TTAAACTGGATTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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2438/2825
FIGURE 2157

MTEPEDVASEVYHGPELECTVGNLLPGTVYRFRVRALNDGGYGPYSDVSEITTAAGPPGQCKAPCISCTPDGCVL
VGWESPDSSGADISEYRLEWGEDEESLELIYHGTDTRFEIRDLLPAAQYCCRLQAFNQAGAGPYSELVLCQTPAS
APDPVSTLCVLEEEPLDAYPDSPSACLVLNWEEPCNNGSEILAYTIDLGDTSITVGNTTMHVMKDLLPETTYRIR
IQAINEIGAGPFSQFIKAKTRPLPPLPPRLECAAAGPQSLKLKWGDSNSKTHAAEDIVYTLQLEDRNKRFISIYR
GPSHTYKVQRLTEFTCYSFRIQAASEAGEGPFSETYTFSTTKSVPPTIKAPRVTQLEGNSCEILWETVPSMKGDP
VNYILQVLVGRESEYKQVYKGEEATFQISGLQTNTDYRFRVCACRRCLDTSQELSGAFSPSAAFVLQRSEVMLTG
DMGSLDDPKMKSMMPTDEQFAAIIVLGFATLSILFAFILQYFLMK

FIGURE 2158

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GTACAGAAGCAAAATCAAACCTGCTATTTCAGCACTCCTGTTTTTAACTTGGTGTCTTTAGTGCTTGGATTGGTG
GGATGTTTCGGAATGGGCATTGTCGCCAATTTTCAGGAGTTAGCTGTGCCAGTGGTTCATGACGGGGGCGCTCTT
TTGGCCTTTGTCTGTGGTGTCGTGTACACGCTCCTACAGTCCATCATCTCTTACAAATCATGTCCCCAGTGGAAC
AGTCTCTCGACATGCCACATACGGATGGTCATCTCTGCCGTTTCTTGCGCAGCTGTCATCCCCATGATTGTCTGT
GCTTCACTAATTTCCATAACCAAGCTGGAGTGGAATCCAAGAGAAAAGGATTATGTATATCACGTAGTGAGTGCG
ATCTGTGAATGGACAGTGGCCTTTGGTTTTATTTTCTACTTCCTAACTTTCATCCAAGATTTCCAGAGTGTCACC
CTAAGGATATCCACAGAAATCAATGGTGATATTTGAAGAAAGAAGAATTCAGTCTCACTCAGTGAATGTCGCAGG
CCATTTCTAAAAGTGCTACAGAGGACAGACAGGGTTTTGAGGCCACCCTGATTATTGGGATGCATCTGCAGCACA
TCCAGGACTTGAATTTCATTACGAGTTCCTAATAGTTGTATTTCTAAAGATGTGTTTCCTAGAGAATGTACAGCC
TTATGACACTGTAGTGATGTTTTTATAATTTTCTAAGTAGATTTTTTTATATTAACAAATTCATATACAGAAAAA
ATAAGGTGTTACAAAAAATGGAGAGCTCTTATTTTTGTACAGATTCTGTCGTTTTTTTTTATTTGTGTGAGATTT
ATGGAAATACACTAAATGAGTAATTCAGGTTCAGTACATTTATTACAAAGTGAAATCAGGGGATATTCATTTGTA
AATTTTATTCTTAGTGAATGAACTGTATAATTTTTTTTATCAGGAGAGCACTTATAAAATTCAATTTATAAAGAT
CATATACCCAAATCATAAAGATTTAGTTGATACATTAACACTAAGATACTCTGATTTTTAGCGAACTAAACAAAG
TGCTTCTACTGAGAGGCCTTTATACCACCATGTACAGTAACTCTAAGTGAATACGGAAGACCTTGGTTTTGAAAT
TCTGCCACCTTGTTTCTCCCTGCTCATGAGGTCGCACCTTTTGCTCTTGCTGCTAATTGCCCATTCGTAGTGGGT
GTAATGCCAGGTGGAATGGTTTCAACAAGTCAGGTGAAAACCATCCTTTATTGTTGCTGGCACAACTTGATATAT
AGTCTGACTCAGAACTGAAGCTCACATCTCAAATTCATTTCATGCCAGTAAATGTGGCAAAGAGAAGAAAGGCCC
AAGAGCGAGACAAGAAGAATGGAGAAGGGGGCAGCCAAGAAGAACTTCTGGGTTCAGGGTACTGTTTATTTGCTC
CTTCTCTTCATGCCTGTGGCTGGATGTCCCACAACACTATAAGAAATATAAGTCAAGCCCTTTGTGTTAAGCAAG
AACTACAGACTCCATCTTTTCACCCAAATCATGAATGACCAATAAAAAGCAAGTTATTCCAGAGGAAGAAGCAGC
CCTTGAAATGTTAAGGCTTAGGCTTGAAAGGTGAAGAGCAGGAATTCTCTCTTTCAAATCCTAGAGCATAAACCC
ATGTGTGGCCAAGTGAGATCAGCCCTCAAGGGCACATGCCAAGGGCAGAGCAGCCCATGTAGACAGCTTCGGAGG
GCATGGGGGTGTAGGGAGTTCGGGGTAGCTCCTCATTAACTATTTGTTGGGTGAGTAAAGGGGTGAGGCTCAGTG
GCAGGTACCTCTGCAATGACAAGCTGCCTCCCCTCTATGTGTTTAGCATATGTTATTAGAACATGTCCGACACCC
CTACCGCTGCCATTTGGGCCCTTTAATAAAGCCAAGTAGAGAAATCTGGCAATAAAAGGCAAATGTAAGCATGCT
TTCTTTAAGACGCATCATAAATGGTTTTCTTTAAGTGAATGGAAGAGTTTGACAGAGATACACCTTTGTAAGAAA
ACATTAAGAATGCTGGCTGGCTGTGGTGGCTCACACCTGTATTCCCAGCACTTTGGGAGGCCTAGGCAGGAGGAT
TGCTTGAGCCTGGGACTTCGAGACCAGACTGGGAAACATGGCAAAATCCCATCTCTACAACAAAAATACAAAAAT
TAGCCAAGTGCGGTGGTGTGCCTGTAGTCCTAGTTACTTGGGAGGCTGAGGTGGGAGAATCACCTGAGCCCAGGA
GGTGGAGGCTGCAGTGAGCCATGCCAATGCACTCCAGTCTGGGCAACAGAGTGAGACCCTGTCTCAAAAATAAAT
AAATAAATAAATGAATAAAGAGAATGCTAATCATTTCTGGGTTCACTGCGACTCACTGTAGTGCTGGGGATCCCC
CTTGTAACACTGGAACTGAAAGGCAGTGATGAAAGCTATGTCAAGCATTCATTATTCTGAAGAGGAGGAGAAATG
CCACATACCTTTCCCATGGGACCTGTGGTGGAATGAATCCATACTTCTGCCTCACTTCGAGCAGACTTTTGTTCT
CGGCGCTCCTCACGATGGAGTTTCATGCTTCATTTTCACATCTCTCTGCACAATTAGATTGGGAGCTCCTTGAGG
GCAGAGTACGTGCCTTAATCTTTATCTTTGTAATGCCACAATGAACAGAGTGCCTCCTGGTACACTGTAGGAGCT
TAAGAAATACTCACTGAATGCATGAATGAATGAATGAACAAATGAAGGAATGACTAAGGATGTTTGTAGTGCTAT
AATATAGAATGGGATTTACTCTGCTTTACCAGTTAGTTTCATAATAAACAAATAGTCTGT
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2440/2825
FIGURE 2159

MGIVANFQELAVPVVHDGGALLAFVCGVVYTLLQSIISYKSCPQWNSLSTCHIRMVISAVSCAAVIPMIVCASLI
SITKLEWNPREKDYVYHVVSAICEWTVAFGFIFYFLTFIQDFQSVTLRISTEINGDI

FIGURE 2160

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TTCCGGGGGCTAGGGAGCGCTTTCTCCCGGGAACCGCGGCTGTGACCCAAGTGGCCCGGACCAGTTTGGGGCTGCG
TGCGGCCTGCCTCAAGCAACCAGGTACGTAGGTCGGCGGCCCAGCTCGGCGCTGCGGTGGGAGCCGGAGGGCGAC
AGTCAGAGCCGGGGTGCCAGCGGGACGCGACCGCCAGATCCACTTAGGACCCCGTCGTTCTGCGAAGCGGCCACG
TCTGAGTCCCGGGGCCTCCTCGTGCTGCAGATGTCGCCTTAGGACCTCGGCCAGGATACCCTCTGCCATGCTCTT
GTGCTGCCCGTGATCACCGACTGGCCCTTGTAAGCACCTTCGCAGCAGGAAGCCCAGAGCTGCGCCTGCCCTTTC
TGAAGGCTGTGGAAGAGGTTGGAGTGGGCGCATCTTAGCTTGCCCCATCCCCATTTGAGGTCTGTCGGAGCTGCC
CTTCAGTGTGAGCATCCACAATGGGTACCCCAGCCTCGGTGGTCAGTGAGCCACCCCCTTGGCAGGCCCCGATTG
AGGCCCGGGGCCGCAAGCAGGCCTCGGCCAACATCTTCCAGGACGCCGAGCTGCTGCAGATCCAAGGCCTGTTTC
AACGCAGCGGGGACCAGCTGGCCGAGGAACGGGCACAGATCATCTGGGAATGTGCAGGGGACCACCGTGTGGCTG
AGGCCCTCAAGAGGCTGCGCAGGAAGAGGCCCCCAAGGCAGAAACCCCTGGGCCACTCGCTACACCACTGCAGCC
GCCTCAGAATCCTGGAGCCCCACTCTGCACTGGCCAACCCACAGAGTGCCACAGAGACAGCCTCCAGTGAGCAGT
ATCTGCACTCTAGGAAGAAAAGTGCCAGGATCCGCCGGAACTGGAGGAAGTCAGGCCCCACAAGCTACCTCCACC
AGATCAGACACTGATCCAGGGAAAGAGCCAGGAATGGCAGTGTCTTCCCTCTTGCCAAAAGGCCTGGGGAGGTGA
AGGAAGAGAGACTTTAGGCAAGCAGCCCAAAGGGGTAAATGAAAGCAAGAGGCTGCTGCCACTGACCTGCTCCAT
TCAGAACAAGACTGGATGCTTCTGTTGAGCTCTCCATTATGTGGGACCCATTCCTCACCAAAATGAGGAGAGACA
GTGACTGTTCCTGCCACAGTCCTTCCCAGTCTAACACTATTCCTGGGCTGCATGATATTCCCCTGGGAGCAAAGT
GACAGGCACTTAGATGCAGCATTTCACCACTCATGCTACTAATCATCTACCTGCTACTACTGTAAACCATGGTTC
CAGCAGCCTGTTCCACACCCCCACACCATCAGGATAGCACAGGGAAACTGTAGTTTAAGTGGCAAATAAAAACAT
TTGCATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2161

MGTPASVVSEPPPWQAPIEARGRKQASANIFQDAELLQIQGLFQRSGDQLAEERAQIIWECAGDHRVAEALKRLR
RKRPPRQKPLGHSLHHCSRLRILEPHSALANPQSATETASSEQYLHSRKKSARIRRNWRKSGPTSYLHQIRH

FIGURE 2162

GCGGGCGGTGGGGCTCACGGCCTAGGGAGGCGCGGAGGCATCTGGCAGAGGCGGGTCGGGCTGGGCCAGCTGGGG
TAGAGCGGAGGAGCGGGTGCCGGCTGAAGCGGGGCGGTGGGCGCGGAGCGCGCTGGGGGCACCGACACCACCTCA
CCGGCAGCCGGGTGCTGAGGGCCGCGGTGTGGGTGCGCGGAGCAGTCAGGGCGCAGGTGGGCAGCGCGCACGGCC
TGCCAGCCCGGGGCGCCAGAATCCTGCGCTGCGGGGCCGAGAGGGGCGCCGCGCCCGCCGCAGCCTGGAGCTTTC
CGCGAACCTCGGGGCGCCC**ATG**ACGGCGGCGGCGACGGCTACCGTGCTCAAGGAGGGCGTGCTGGAGAAGCGCAG
CGGCGGGCTGCTGCAGCTGTGGAAGCGGAAGCGCTGCGTCCTCACCGAACGCGGGCTGCAGCTCTTCGAGGCCAA
GGGCACGGGCGGCCGGCCCAAGGAGCTCAGCTTCGCCCGCATCAAGGCCGTGGAGTGCGTGGAGAGCACCGGGCG
CCACATCTACTTCACGCTGGTGACCGAAGGGGGCGGCGAGATCGACTTCCGCTGCCCCCTGGAAGATCCCGGCTG
GAACGCCCAGATCACCCTAGGCCTGGTCAAGTTCAAGAACCAGCAGGCCATCCAGACAGTGCGGGCCCGGCAGAG
CCTCGGGACCGGGACCCTCGTGTCC**TAA**ACCACCGGGCGCACCATCTTTCCTTCATGCTACCCACCACCTCAGTG
CTGAGGTCAAGGCAGCTTCGTTGTTCCCTCTGGCTTGTGGGGGCACGGCTGTGCTCCATGTGGCAAGGTGGAAGG
CATGGACGTGTGGAGGAGGCGCTGGAGCTGAAGGAATGGACGAGCCCTGGGAGGAGGGCAGAAGGCTACGCAGGG
CTGAGGATGAAGATGCAGCCCCTGGATGGTCCCAGACTCTCAGGACATGCCCAGCTCAGGGCTTCGAGCCACAG
GCCTGGCCTCATATGGCATGAGGGGGAGCTGGCATAGGAGCCCCCTCCCTGCTGTGGTCCTGCCCTCTGTCCTGC
AGACTGCTCTTAGCCCCCTGGCTTTGTGCCAGGCCTGGAGAGGGCAGTCCCCCATGGGGTGCCGAGCCAACGCCT
CAGGAATCAGGAGGCCAGCCTGGTACCAAAAGGAGTACCCAGGGCCTGGTACCCAGGCCCACTCCAGAATGGCCT
TGGACTCACCTTGAAAGGGGGAGCTGCTGGGCCTAAAGCCCACTCCTGGGGGTCTCCTGCTGCTTAGGTCCTTTT
GGGACCCCCACCCATCCAGGCCCTTTTTTGCACACTTTTCCCCCACCTTATGCATTTCCCCCCACTGCGGTGTTC
GGCCTAAGGTGGTGGGGGTGAGGGGGGGTTTGGCCATTAGCATTTCATGTCTTTCCCCAAATGAAATGCCCTGCA
AAGGGCAGTAACCCC

2444/2825
FIGURE 2163

MTAAATATVLKEGVLEKRSGGLLQLWKRKRCVLTERGLQLFEAKGTGGRPKELSFARIKAVECVESTGRHIYFTL
VTEGGGEIDFRCPLEDPGWNAQITLGLVKFKNQQAIQTVRARQSLGTGTLVS

FIGURE 2164

GCTGCCGCATCCCAGGCTAAGCGCCGCGCCGAAAGCCGTGCGGAGATTGGAGGCCGCGCGGGTCCCTGGTCTGGG
CC**ATG**TCTGGCTGTGATGCTGGGGAGGGAGACTGTTGTTCCCGGAGATGCGGCGCGCAGGACAAGGAGCATCCAA
GATACCTGATCCCAGAACTTTGCAAACAGTTTTACCATTTAGGCTGGGTCACTGGGACTGGAGGAGGAATTAGCT
TGAAGCATGGCGATGAAATCTACATTGCTCCTTCAGGAGTGCAAAAGGAACGAATTCAGCCTGAAGACATGTTTG
TTTGTGATATAAATGAAAAGGACATAAGTGGACCTTCGCCATCGAAGAAGCTAAAAAAAAGCCAGTGTACTCCTC
TTTTCATGAATGCTTACACAATGAGAGGAGCAGGTGCAGTGATTCATACCCACTCTAAAGCTGCTGTGATGGCCA
CACTTCTCTTTCCAGGACGGGAGTTTAAAATTACACATCAAGAGATGATAAAAGGAATAAAGAAATGTACTTCCG
GAGGGTATTATAGATATGATGATATGTTAGTGGTACCCATTATTGAGAATACACCTGAGGAGAAGACCCTCAAAG
ATAGAATGGCTCATGCAATGAATGAATACCCAGACTCCTGTGCAGTACTGGTCAGACGTCATGGAGTATATGTGT
GGGGGGAAACATGGGAGAAGGCCAAAACCATGTGTGAGTGTTATGACTATTTATTTGATATTGCCGTATCAATGA
AGAAAGTAGGACTTGATCCTTCACAGCTCCCAGTTGGAGAAAATGGAATTGTC**TAA**GCCAAAAGAAAGTCTAATT
ATATACAGAGATAAAGCTAAACGTAATTATTATTTAAATGAAAGCTATTTTTTTAAATGAATTGAAATTTTTCAT
GATGCTACTAATTTGCCACTAAATACTGCAAATGGTCACCCTGAATCTCTTCTGACATTGGATGTTATTTGCTTA
TATTCTTATAATTTTAAATGAGGGCACAGTGAAATGAAAATTTTATACTCTATGTTTCTGTTTATTTTTAAATCC
TTAACAGCAAAATATTTGCCTTTAATTTCTTTTTTATATATACTCTCGAGAGAATTCCTCTTAATTTTTAAAGAT
GCTGGTGATAATAAAATTCATTAGAAAATTTCCTCATTGTGGAATGAGCATTCTCTTGTTTTAATGTTGGTGTCA
GAAAATAAATATGAAACATTAAGTCC

2446/2825
FIGURE 2165

MSGCDAGEGDCCSRRCGAQDKEHPRYLIPELCKQFYHLGWVTGTGGGISLKHGDEIYIAPSGVQKERIQPEDMFV
CDINEKDISGPSPSKKLKKSQCTPLFMNAYTMRGAGAVIHTHSKAAVMATLLFPGREFKITHQEMIKGIKKCTSG
GYYRYDDMLVVPIIENTPEEKTLKDRMAHAMNEYPDSCAVLVRRHGVYVWGETWEKAKTMCECYDYLFDIAVSMK
KVGLDPSQLPVGENGIV

FIGURE 2166

GCGGCCGCGGCCGTGAGCCTGCCCCCAACTCGCCCTCAGCCGGCTGGCCGGCGCGGCC**ATG**GAGGTCTACATCCC
GTCCTTTCGCTATGAAGAGAGCGACCTGGAGCGGGGATACACGGTGTTTAAGATAGAAGTGCTAATGAATGGAAG
AAAACATTTTGTTGAAAAGAGATACAGCGAATTTCATGCTTTGCACAAAAAGCTTAAGAAATGTATAAAAACTCC
AGAAATCCCTTCTAAACATGTTAGGAACTGGGTCCCCAAAGTCTTGGAACAGCGACGACAAGGCTTGGAAACATA
CTTACAGGCTGTCATTTTAGAAAATGAAGAACTTCCCAAACTGTTTCTTGATTTCCTAAATGTGCGACACTTGCC
CTCTCTACCAAAGGCAGAAAGTTGTGGATCTTTTGATGAAACAGAGTCTGAAGAGTCAAGCAAACTGTCCCACCA
GCCTGTGCTGCTGTTCCTCAGGGATCCATATGTCTTGCCTGCAGCCAGCGATTTTCCAAATGTGGTTATTGAAGG
AGTCCTCCATGGGATATTTTACCCTCATCTACAGCCCAGG**TAG**AAATCCTACATGGCTAAAAGAAGCAGAAGCAA
GTTTCGAAGTCACAGTCAAGGAAATCAATACCTACCAATTTAACCTAAACGCTATGATATATAACAGCTCTAGCT
AGTGGTAAAGTGCACAGTCCCAGCTTAATTCAGGGCAGGGACATTTCCATTAGAATGGTGCTCTTAAAAATAGAA
ACTGAACCGGGGCGGTGGTCAGGCTAAGGCCAAGTGTTTAAGAAGTAGAGTGTAGCTGCCAGCGTAGAAACCCAT
GAAAAGGAGGCCACAGGAGATTCCTGGGAGCACTGGGTGTAGCAAAACAAAGCCACTCTCTGCTTCAGTCGCACC
ATTTGCTAATTGAAAATCATATCCTGAATCATACTGAGACTGATCAACTTTGGTAGCTTTTTGTTCAGATCTTA
TGACACACTACTCTTCTCACCGTGAGATTTTCTCAGCCAGTGATAGTACATTCTGAAATGCTGGCACCAGGAGAC
GGCCACAGACACACACTGCTAAATGTGAAGATGGAACTAAACTGGAAATTAAATTATACTGACAATATTATGGCA
TTTTTAAGATCATGGCATTTTAATTTACATTAGAGTGGAGTTGCATCATACTCAGGGGTTAGCTTCCAAGGTCAG
TACATAGGTAAAATGGGCTATTAGGATGATCCTTGAAAGCCCTTTAGAAGGGTGCCATGTTGGAAACCTGTACAT
CACAACAAGTAGCTTTTCCTCCTATGTTGGAAAAAAAGACTGTTTCTTTGTTTGAAGACCAAGTGAAGTTGTTGG
TGTTTGTTTAGGGGCCATTTTGTTAAAAAAAAAAAAGCACATAACTTTTAACACTAGAATCAGCCCGCAAGATGCT
TGCCCCGCTAGTGGCAGATGTGAACTGACAAGGAGTGAAGCGCCCACCCAGCGGATGGACAGCACCCACCTGGGT
TTACTCAAGGGTGTGCATTCATTTTAGGTGGGATCGCCACAGGATTTCATGTTATTTTCCTTACGGCTTCCTTTT
CACTGACCTCATTTGTTGAGTTAATGTAAGTTAAATGTGTCTATGATATAACTCCACTGTACATCATCCTTTGAG
TAGTAAAGGATAAAAGCATATATACTACCTATGTATGTGCTGTATGTGGGCATTTCATTGAGATCTAATTAAT
AGCTAGCCTATTTATGGTTATTCGTTTTAGTAAGTTCTGTGGGAGCAAGGTATTTAAAATCAAAACTAATAACTA
CATCATGGTTTTTGATTAGGATCTAAATATTCAGGTTTTAAGCCTGCTGCAAACTTTTAAAATATTATGATAGAT
TCTGTACTACATGTGGGAAACAAGCAAGAACTAAATAATCAAATGTTGTCAACCAAAGTAATAGTTGGGTATTG
GAGATTTTTTTAAAATGTTTTTATGTTATTAGCTATTTGGAGTTAAATAAAAACAGAACAAGGAAAAAAAAAAAA
AAAAAAAAAAAA

FIGURE 2167

MEVYIPSFRYEESDLERGYTVFKIEVLMNGRKHFVEKRYSEFHALHKKLKKCIKTPEIPSKHVRNWVPKVLEQRR
QGLETYLQAVILENEELPKLFLDFLNVRHLPSLPKAESCGSFDETESEESSKLSHQPVLLFLRDPYVLPAASDFP
NVVIEGVLHGIFYPHLQPR

FIGURE 2168

GCGGCCGCGTCGACCGGCGCGGCTGGAGCGCAGCGCCGAAGGGACTGGCAGGGCTGAAGTGTGCGGGACAGCAAG
CCCCCGAATAGCCCCGGCTGCCACCTCGCAGGACCCAAGGCCACGCGCGCCGGGCCCAGCTGAGCCGCCTC**ATG**A
AGCCGCCCGCGGAGGACCTGTCGGACGCGCTGTGCGAGTTTGACGCGGTGCTGGCCGACTTCGCGTCGCCCTTCC
ACGAGCGCCACTTCCACTACGAGGAGCACCTGGAGCGCATGAAGCGGCGCAGCAGCGCCAGTGTCAGCGACAGCA
GCGGCTTCAGCGACTCGGAGAGTGCAGATTCACTTTATAGGAACAGCTTCAGCTTCAGTGATGAAAAACTGAATT
CTCCAACAGACTCTACCCCAGCTCTTCTCTCTGCCACTGTCACTCCTCAGAAAGCTAAATTAGGAGACACAAAG
AGCTAGAAGCCTTCATTGCTGATCTTGACAAAACTTTAGCAAGTATG**TGA**AACAAGAAGTTCTGGGTCCTTTCAT
CATAAGGGAGAAGCTTCAGAAAGTTCCGAGGACCTGCTAAAATCAGCTACTAGAATCTGCTGCCAGAGGGGACAA
AGACGTGCACTCAACCTTCTACCAGGCCACTCTCAGGCTCACCTTAAAATCAGCCCTTGATCCCATTTCTGGGCA
ATTTAGACAGTGAAACTGACTTTGTTTACCTGCTTGCAGCATATTAGAACAGACGATCCATGCTAATATTGTATT
TTCTCTTAAAACATAGCTTTCCTGTAATTTAAAGTGCTTTTATGAAAATATTTGTAATTAATTATATATAGTTGG
AAATAGCAGTAAGCTTTCCCATTATAATATATTTTTGTATACAAATAAAATTTGAACTGAACCTCGTGCC

2450/2825
FIGURE 2169

MKPPAEDLSDALCEFDAVLADFASPFHERHFHYEEHLERMKRRSSASVSDSSGFSDSESADSLYRNSFSFSDEKL
NSPTDSTPALLSATVTPQKAKLGDTKELEAFIADLDKTLASM

FIGURE 2170

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AGAAGCAGTCAGCCCAGGGCTCTCGGATGCAGGGAGCCTGGGCCCAAACAGCAGCTTCCGGAGTCGGAAGGAGCT
GAGGAAGAAGACAGACTGAAGGAGCTTGCGACTTTTCCGCCTCGGCAACCGGACCCAGCAGCAAGCAGGACGGGC
GGCGCTCTGCTACTGGTCCCGTTAAGCCAGAGTAGCCCAAGCCCTGAAGTCACTGCTCATCCGGAATGGAAATCC
CGCCGACCAACTACCCAGCCTCCAGGGCGGCCTTGGTGGCACAGAACTACATCAACTACCAGCAGGGGACCCCGC
ACAGGGTGTTTGAGGTGCAGAAGGTCAAACAAGCCAGCATGGAGGATATTCCAGGAAGAGGACATAAGTATCGCC
TTAAATTTGCTGTTGAAGAAATTATACAAAAACAAGTTAAGGTGAACTGCACAGCTGAAGTACTTTACCCTTCAA
CGGGACAAGAAACTGCACCAGAAGTCAACTTCACATTTGAAGGAGAAACTGGAAAGAATCCAGATGAAGAAGACA
ACACATTTTATCAAAGACTTAAGTCCATGAAGGAACCGCTAGAAGCACAAAATATTCCAGACAATTTTGGAAATG
TATCTCCAGAAATGACGCTCGTTCTACATTTAGCCTGGGTTGCCTGTGGTTATATAATATGGCAAAATTCTACTG
AAGACACATGGTATAAAATGGTAAAAATTCAAACTGTCAAGCAAGTGCAAAGAAATGATGACTTTATTGAATTAG
ACTACACCATTCTACTTCATAATATAGCATCTCAGGAGATTATTCCCTGGCAAATGCAAGTTCTCTGGCATCCAC
AATACGGCACTAAAGTAAAACATAATAGCCGTCTGCCAAAGGAAGTACAACTGGAATAAACAAAAACCCTAACAC
TGGAAGTGTAAACATGTCTATTGATGTGTATGCCAATTTCACTGGCATCTAGCTTATGAGGCCAAATAATCCCAA
AGTGTCACTTTATATAAATGTCTTGATTACAGTATAGAACTTTATAGAGTCCATAATACAAAGTATCACTACATA
AAAATGTCTTTAAAACAGTAATAGTGGTATGTATATCCAAAATAAAAAGCTTCAATTTCAGCCAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAA
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2452/2825
FIGURE 2171

MEIPPTNYPASRAALVAQNYINYQQGTPHRVFEVQKVKQASMEDIPGRGHKYRLKFAVEEIIQKQVKVNCTAEVL
YPSTGQETAPEVNFTFEGETGKNPDEEDNTFYQRLKSMKEPLEAQNIPDNFGNVSPEMTLVLHLAWVACGYIIWQ
NSTEDTWYKMVKIQTVKQVQRNDDFIELDYTILLHNIASQEIIPWQMQVLWHPQYGTKVKHNSRLPKEVQLE

FIGURE 2172

GCTGGAGCCGGCGCGGAGGAGCGGGCGGCCGCGGCTGTGCCCTCTCCTACTCCTCACCGCGCGCGCGCGGGGAAC
CAGTAGCCGCGGCTGCTTCGGTTGCCGCGGTCGGTGGTCGTT**ATG**GATTCTCCATGGGACGAGTTGGCTCTGGCC
TTCTCCCGCACGTCCATGTTTCCCTTTTTTGACATCGCGCACTATCTAGTGTCAGTGATGGCGGTGAAACGTCAG
CCGGGAGCAGCTGCATTGGCATGGAAGAATCCTATTTCAAGCTGGTTTACTGCTATGCTCCACTGTTTTGGTGGA
GGAATTTTATCCTGTCTACTGCTTGCAGAGCCTCCATTGAAGTTTCTTGCAAACCACACTAACATATTACTGGCA
TCTTCAATCTGGTATATTACATTTTTTTGCCCGCATGACCTAGTTTCCCAGGGCTATTCATATCTACCTGTTCAA
CTACTGGCTTCGGGAATGAAGGAAGTGACCAGAACTTGGAAAATAGTAGGTGGAGTCACACATGCTAATAGCTAT
TACAAAAATGGCTGGATAGTCATGATAGCTATTGGATGGGCCCGAGGTGCAGGTGGTACCATTATAACGAATTTT
GAGAGGTTGGTAAAAGGAGATTGGAAACCAGAAGGTGATGAATGGCTGAAGATGTCATACCCTGCCAAGGTAACC
CTGCTGGGGTCAGTTATCTTCACATTCCAGCACACCCAGCATCTGGCAATATCAAAGCATAATCTTATGTTCCTT
TATACCATCTTTATTGTGGCCACAAAGATAACCATGATGACTACACAGACTTCTACTATGACATTTGCTCCTTTT
GAGGATACATTGAGTTGGATGCTATTTGGCTGGCAGCAGCCGTTTTCATCATGTGAGAAGAAAGTGAAGCAAAG
TCACCTTCCAATGGCGTTGGGTCATTGGCCTCAAAGCCGGTAGATGTTGCCTCAGATAATGTTAAAAAGAAACAT
ACTAAGAAGAATGAA**TAA**ATTTACGTGATGAGCTCTACAAGGCCAAAAATTTTTTTTCTTATCTACCTGTTATAT
TGTGCTAATTTTTCTATGTATGTGATGTGAAATGAAGACTATATATGGAATGGAGGTGACAGAAAGAAAGAAA
TTCTTTGTTTGAGGGAGACTTCCCCTTTCTGGATTGTATTTGTAGAGTGTTACGAGTGTATCATGTGATTATGCT
TTACCGGTATAAGAGATTCTGTTGTGATTATTTGAATAGTTTTATATTAATAAAAGAAGACAAAATTTTTTAAAT
GTTAGAAAAAGCAGATCTGTCATTGCAAAGTAACAAAAATTTTAAGCTTTTAAAAATGTAGATTTTTCATATTTT
TAAAATTTGAATCTATTTGAGCTTTAGTTCAGCAGAATTAAATTTTTACTTGACATTATCATTAAAATTGCTAGG
TATGGAGAACAATTCCTATTTTATTTTGAACACTGAGAAGAGTAAACTTTTCCTAAAACACTTTATATTATAAAT
GAAAATAAATTGCTAGTTTATATTTTAGATATAAACATCATATTTTTATTAATACCTACATCAAATGGAAAATA
TCTGAAATTTTTTTTCCATAGCAGGTATTTTCTACTAGAAGTAGTTTTACTACTTTTCATTTAGAACAGAGTATG
AGTCTTAATCTGAAGTCTTTTTCATGCCCTTGTTTAAAAAAACTACTTTTTTGGCCTCAAAAAAATCAAGGGT
GTAATTTTTAATAAATTGTTAATCCTATGTTTTGTAATTTTCATTTAGGAGCTTGACTTATTTTTTTCTCTCTC
ATAAAAACACATTTGTTTTAATTGTAGGAGAAATTTTCTCAGCATTTTGCATGTTCTTTCTAATCTTTGTTGGTC
TGAATATATTGGTAGTAATTACTGTAATTATTCAACAAAAAGCATATCCGTTCAAAAATTTTTCCACTATGTCTT
TTTTCTAGTGGCTACTGTTTTAGTTTTCTAGTTGAATATCTCTGACAAGCTTTCGTATGGTTTTGTTATATCTTC
ATCTACATGTAATGTGTTATTAATTTTATTAAATGAAAACTAATCACCTTC

FIGURE 2173

MDSPWDELALAFSRTSMFPFFDIAHYLVSVMAVKRQPGAAALAWKNPISSWFTAMLHCFGGGILSCLLLAEPPLK
FLANHTNILLASSIWYITFFCPHDLVSQGYSYLPVQLLASGMKEVTRTWKIVGGVTHANSYYKNGWIVMIAIGWA
RGAGGTIITNFERLVKGDWKPEGDEWLKMSYPAKVTLLGSVIFTFQHTQHLAISKHNLMFLYTIFIVATKITMMT
TQTSTMTFAPFEDTLSWMLFGWQQPFSSCEKKSEAKSPSNGVGSLASKPVDVASDNVKKKHTKKNE

2455/2825
FIGURE 2174

AGGGGGCCGAGCGGCGGGCCGGGCCGGGCCGGGCAGGGCCGGGGCGTGGGCCGGCAGGAAGATGGCGAACGTGGG
GCTGCAGTTCCAGGCGAGCGCGGGGGACTCGGACCCACAGAGCCGGCCCCTGCTGCTGCTCGGGCAGCTGCACCA
CCTGCACCGCGTGCCCTGGAGCCACGTCCGCGGGAAGCTGCAGCCCCGGGTCACCGAGGAGCTCTGGCAGGCTGC
CCTGAGCACGCTCAACCCCAACCCCACGGACAGCTGTCCCCTCTACCTGAACTACGCCACCGTGGCTGCCCTGCC
CTGCAGGGTGAGCCGGCACAACAGCCCCTCGGCCGCCCACTTCATCACGCGGCTGGTGCGGACCTGCCTGCCGCC
CGGAGCGCATCGCTGCATTGTG**ATG**GTCTGCGAGCAGCCGGAGGTCTTTGCTTCCGCCTGTGCCCTGGCCCGGGC
CTTCCCGCTGTTCACCCACCGCTCAGGTGCCTCTCGGCGCTTGGAGAAGAAGACGGTCACCGTGGAGTTTTTCCT
GGTGGGACAAGACAACGGGCCGGTGGAGGTGTCCACATTGCAGTGCTTAGCGAATGCCACAGACGGCGTGCGGCT
AGCAGCCCGCATCGTGGACACACCCTGCAATGAGATGAACACCGACACCTTCCTCGAGGAGATTAACAAAGTTGG
AAAGGAGCTGGGGATCATCCCAACCATCATCCGGGATGAGGAACTGAAGACGAGAGGATTTGGAGGAATCTATGG
GGTTGGCAAAGCCGCCCTGCATCCCCCAGCCCTGGCCGTCCTCAGCCACACCCCAGATGGAGCCACGCAGACCAT
CGCCTGGGTGGGCAAAGGCATCGTCTATGACACTGGAGGCCTCAGCATCAAAGGGAAGACTACCATGCCGGGGAT
GAAGCGAGACTGCGGGGGTGCTGCGGCCGTCCTGGGGGCCTTCAGAGCCGCAATCAAGCAGGGTTTCAAAGACAA
CCTCCACGCTGTGTTCTGCTTGGCTGAGAACTCGGTGGGGCCCAATGCGACAAGGCCAGATGACATCCACCTGCT
GTACTCAGGGAAGACGGTGGAAATCAACAACACGGATGCCGAGGGCAGGCTGGTGCTGGCAGATGGCGTGTCCTA
TGCTTGCAAGGACCTGGGGGCCGACATCATCCTGGACATGGCCACCCTGACCGGGGCTCAGGGCATTGCCACAGG
GAAGTACCACGCCGCGGTGCTCACCAACAGCGCTGAGTGGGAGGCCGCCTGTGTGAAGGCGGGCAGGAAGTGTGG
GGACCTGGTGCACCCGCTGGTCTACTGCCCCGAGCTGCACTTCAGCGAGTTCACCTCAGCTGTGGCGGACATGAA
GAACTCAGTGGCGGACCGAGACAACAGCCCCAGCTCCTGTGCTGGCCTCTTCATCGCCTCACACATCGGCTTCGA
CTGGCCCGGAGTCTGGGTCCACCTGGACATTGCTGCACCGGTGCATGCTGGTGAGCGAGCCACAGGCTTCGGTGT
GGCCCTCCTGCTGGCGCTCTTCGGCCGTGCCTCTGAGGACCCTCTGCTGAACCTGGTGTCCCCACTGGGCTGTGA
GGTGGATGTCGAGGAGGGGGACCTGGGGAGGGACTCCAAGAGACGCAGGCTTGTG**TGA**GCCTCCTGCCTCGGCCC
TGACAAACGGGGATCTTTTACCTCACTTTGCACTGATTAATTTTAAGCAATTGAAAGATTGCCCTTCATATGGGT
TTTGGTTTGTCTTTCTGGTCGTCAGCGTGGTGGTGGAAACAGCTGAAGTTTTAGGAGACAGCTTAGGGTTTGGTG
CGGGCCACGGGGAGGGGACCGGGAAGCGCTGGGGCTTGTTTCTGTTTGTTACTTACAGGACTGAGACATCTTCTG
TAAACTGCTACCCCTGGGGCCTTCTGCACCCCGGGGTGAGGCCTCCTGCCTGCCTGGTGCCCTGTCCCAGCCCCA
GGTCCTGTGCAGGGCACCTGCGTGGCTGACAGCCAGGCTCTTACTCCAGCCGGGGCTGCCAGCGCATCCAGCCAG
CCCAGCCCTGTGAAAGATGGAGCTGACTTGCTGCAGGGGACCTGATTTATAGGGCAAGAGAAGTCACACTCCGGC
CTCTCAGAATTCACTTGAGGTTCAATTAAATACAGTCACACCGCCCCCTCAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAA

2456/2825

FIGURE 2175

MVCEQPEVFASACALARAFPLFTHRSGASRRLEKKTVTVEFFLVGQDNGPVEVSTLQCLANATDGVRLAARIVDT
PCNEMNTDTFLEEINKVGKELGIIPTIIRDEELKTRGFGGIYGVGKAALHPPALAVLSHTPDGATQTIAWVGKGI
VYDTGGLSIKGKTTMPGMKRDCGGAAAVLGAFRAAIKQGFKDNLHAVFCLAENSVGPNATRPDDIHLLYSGKTVE
INNTDAEGRLVLADGVSYACKDLGADIILDMATLTGAQGIATGKYHAAVLTNSAEWEAACVKAGRKCGDLVHPLV
YCPELHFSEFTSAVADMKNSVADRDNSPSSCAGLFIASHIGFDWPGVWVHLDIAAPVHAGERATGFGVALLLALF
GRASEDPLLNLVSPLGCEVDVEEGDLGRDSKRRRLV

FIGURE 2176

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TACTTGCGTCATGGACAGCTCATTGTAAATGATGGCATTAATTTATTGGGTGTGTTAGAAGAAGCAAGATTTTTT
GGTATTGACTCATTGATTGAACACCTAGAAGTGGCAATAAAGAATTCTCAACCACCGGAGGATCATTCACCAATA
TCCCGAAAGGAATTTGTCCGATTTTTGCTAGCAACTCCAACCAAGTCAGAACTGCGATGCCAGGGTTTGAACTTC
AGTGGTGCTGATCTTTCTCGTTTGGACCTTCGATACATTAACTTCAAAATGGCCAATTTAAGCCGCTGTAATCTT
GCACATGCAAATCTTTGCTGTGCAAATCTTGAACGAGCTGATCTCTCTGGATCAGTGCTTGACTGTGCGAATCTC
CAGGGAGTCAAGATGCTCTGTTCTAATGCAGAAGGAGCATCCCTGAAACTGTGTAATTTTGAGGATCCTTCTGGT
CTTAAAGCCAATTTAGAAGGTGCTAATCTGAAAGGTGTGGATATGGAAGGAAGTCAGATGACAGGAATTAACCTG
AGAGTGGCTACCTTAAAAAATGCAAAGTTGAAGAACTGTAACCTCAGAGGAGCAACTCTGGCAGGAACTGATTTA
GAGAATTGTGATCTGTCTGGGTGTGATCTTCAAGAAGCCAACCTGAGAGGGTCCAACGTGAAGGGAGCTATATTT
GAAGAGATGCTGACACCACTACACATGTCACAAAGTGTCAGATGAGAATTTTAGGGGCTGGAGGAAGATGTAAAA
GATGAAAATGTTTTCCTTATCACTTTTCTTTCTCCACCCACTCAGTTGTCTAGAAGAAATAACACTGTAAGGAAA
TTTAAAAAAAAAACATTTAGAGGATTATGCTTGTTTTGAGTGGTGCATAAGGGAAAAAACTGACTTTTTTTCCAT
ATTCTGATTTTTAACAGAAAAGCACTCATTTAATAGATGTAGGGAAACTAGATATTGCTGCCTTTTGAATGGGGT
AGGGGGGGTTTACCTGGTTTTATGACCAGGCATAGTATCTATTATATTTGCTTTTAAATAGGCATGATGTGGAAAT
ACCATCTTGGTTTGAGATGCATTTGAGGATTTTAATTTATGGAAAGCACAACATATGCAATTATATTTATTGAAT
TCCTAGATGCAGTATGGATATTTAAATTGTTAAAACTTTATGAAAACTTGGAAAAGGTTGTTCAGGTTTATAAAT
AGCTTTAGTGATGCCTCCCCTCTTTAAATACCTGTCACACCGTATGAATATGGTGAGATCAGACTCCCTAAGACT
CTTTTCAGGTTCATTTTTATAATGTTTACTTTTTAGGACAGAACAGTAGCTAAATTAAAGTAATATCCAGTTCTT
ACTGATTGAGACAGAGTGGAAAGAAAGACATCATTGTACATCACTGTCATTCCAAAGGTACAGTGTAACTCTGGA
TGGAGGAATAACTTACCTATCACTACAACACTTACAAATGAGAATTTCTCAGAATTTCATTCTAGGCAAGTTCCA
CTCAACACCAGATCAAGCAATTCTATCTATTTACACTATTAGCCTAGTTTTCTCATACAGTCATCACAAGCATAG
GAAGATACTTCAAAACCAAAAAAACCAAGGTGCATCATTAATATTCATTTAATTCAAATGCCAAATAGTTTACAT
AGGGCCAGCTTAGAAATAGATACTAAATCCAGAGCTACTGCAATCAAAGCTTATATGAGTGAATATGGTAGAGTT
GCCTGCTAAAAGGCAATGTAATATAATTGCAGCTAGAACCCTACAGTGGGGAATGAGGAATTTTAAACACACATT
TGATTGCAGCCACCAAAAAAAATAGACGTAAAAATAAAGGCATTTGGCTGGTCCAAGATGTAATTATCAATCAGT
CAGCACCTGTGATTCTTTTACTTATTTTTTTGTGGTTTTTTTTTTAAACAAATTTTAGCCCAATTTTCTTGAGT
CATTCTCTCTGCAGCAGCAGAGGAAGGGCCTGTACCTCCCTACCAATGACTTGGTGTCCTTATTTTCTACCCC
AAGAGCAGGGATATTAGCTGTGTCCAAATGGGTTCTGAATTCTACAGACTCATCAACATGAGGCAAGGAATCATT
GAAAACCACCTGTGTCTCCTTTGGGAGAATGACATATCTTTAGTATTTACGTAGCTTATTCTTCTATATCTACAT
ATGCAAAGCTTTCCTTAACAGTAAAGGGTACATATGCATAGTGGGAGGAGATCAGACCTTTACAAGTGAAGGAAA
GCAACTTCAGAAATGAATTATTTTCTTTGCTTTATTATTTTTACCAAGACAGAGAAGTATTGTATTGAGAGATAA
TCTATTTTCATAATCAATATGTGCCTAAATTATATTTAAATCATTTCACTCTGTACTATATTTTCAGGAATTACA
GAATGTGGTATTCATTCACTTAAAGGTACCTCTGTAGAAATAACCTAAAACTGCAGAAGGATCTGAAAGATCTAA
ACATGGTGTGCTTAGAAACTGCAGATTTTAGATCTAATGTATACTGCATTAATAAATGATATAAAGTGTTTGTTG
AAAAAAAAAAAAAAAAAAAA
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FIGURE 2177

MANLSRCNLAHANLCCANLERADLSGSVLDCANLQGVKMLCSNAEGASLKLCNFEDPSGLKANLEGANLKGVDME
GSQMTGINLRVATLKNAKLKNCNLRGATLAGTDLENCDLSGCDLQEANLRGSNVKGAIFEEMLTPLHMSQSVR

FIGURE 2178

GGCACGAGGCCGAGCCTAGTGCCTCCCACGCCCGGCGGCCGCGAGCCGGGGTCCGCGAGGGCGGAGTGGGGCGCG
GCAGCCAGGAACCCGACTACGAATCCCAGGGTGCGGGCGGGCGGAGCGAGGAGGGACGCTGGGCCTGCCCGGTGC
GCACGGGGGCGGGGACCGGCAAGGCGGGACCATTTCCCGGCATAGGCTCCGGTGCCCCTGCCCGGCTCCCGCCGG
GAAGTTCTAGGCCGCCGCACAGAAAGCCCTGCCCTCCACGCCGGGTCTCTGGAGCGCCCTGGGTTGCCCGGCCGG
TCCCTGCCGCTGACTTGTTGACACTGCGAGCACTCAGTCCCTCCCGCGCGCCTCCTCCCCGCCCGCCCCGCCGCT
CCTCCTCCCTGTAACATGCCATAGTGCGCCTGCGACCACACGGCCGGGGCGCTAGCGTTCGCCTTCAGCCACC**AT
G**GGGAATGGGATGAACAAGATCCTGCCCGGCCTGTACATCGGCAACTTCAAAGATGCCAGAGACGCGGAACAATT
GAGCAAGAACAAGGTGACACATATTCTGTCTGTCCATGATAGTGCCAGGCCTATGTTGGAGGGAGTTAAATACCT
GTGCATCCCAGCAGCGGATTCACCATCTCAAAACCTGACAAGACATTTCAAAGAAAGTATTAAATTCATTCACGA
GTGCCGGCTCCGCGGTGAGAGCTGCCTTGTACACTGCCTGGCCGGGGTCTCCAGGAGCGTGACACTGGTGATCGC
ATACATCATGACCGTCACTGACTTTGGCTGGGAGGATGCCCTGCACACCGTGCGTGCTGGGAGATCCTGTGCCAA
CCCCAACGTGGGCTTCCAGAGACAGCTCCAGGAGTTTGAGAAGCATGAGGTCCATCAGTATCGGCAGTGGCTGAA
GGAAGAATATGGAGAGAGCCCTTTGCAGGATGCAGAAGAAGCCAAAAACATTCTGGCCGCTCCAGGAATTCTGAA
GTTCTGGGCCTTTCTCAGAAGACTG**TAA**TGTACCTGAAGTTTCTGAAATATTGCAAACCCACAGAGTTTAGGCTG
GTGCTGCCAAAAGAAAGCAACATAGAGTTTAAGTATCCAGTAGTGATTTGTAAACTTGTTTTTCATTTGAAGC
TGAATATATACGTAGTCATGTTTATGTTGAGAACTAAGGATATTCTTTAGCAAGAGAAAATATTTTCCCCTTATC
CCCACTGCTGTGGAGGTTTCTGTACCTCGCTTGGATGCCTGTAAGGATCCCGGGAGCCTTGCCGCACTGCCTTGT
GGGTGGCTTGGCGCTCGTGATTGCTTCCTGTGAACGCCTCCCAAGGACGAGCCCAGTGTAGTTGTGTGGCGTGAA
CTCTGCCCGTGTGTTCTCAAATTCCCCAGCTTGGGAAATAGCCCTTGGTGTGGGTTTTATCTCTGGTTTGTGTTC
TCCGTGGTGGAATTGACCGAAAGCTCTATGTTTTCGTTAATAAAGGGCAACTTAGCCAAGTTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

2460/2825
FIGURE 2179

MGNGMNKILPGLYIGNFKDARDAEQLSKNKVTHILSVHDSARPMLEGVKYLCIPAADSPSQNLTRHFKESIKFIH
ECRLRGESCLVHCLAGVSRSVTLVIAYIMTVTDFGWEDALHTVRAGRSCANPNVGFQRQLQEFEKHEVHQYRQWL
KEEYGESPLQDAEEAKNILAAPGILKFWAFLRRL

FIGURE 2180

CCCAGCAGGCAGTGCAGCCTAGAGACGCTGACAAAGGAGCGGAGGAGCAGTCGCAGCTGCTTTCCGAGGAAGCCG
GTGTTGCCGAGATTGCCAAAATGCTTTGGAGTTTTTAACTGAATCTAAGAAAAGTCCAAAATAGATTTGAGACTG
TAAAAACAGAAACTGCAGCAAGGGGGATTCAGTGCCA**ATG**CATCAACAAAAAAGACAACCAGAGTTAGTGGAAGG
AAATCTTCCTGTTTTCGTGTTCCCCACGGAGCTCATATTTTATGCAGATGATCAGTCAACACATAAGCAAGTGTT
GACACTGTACAATCCCTATGAGTTTGCCTTAAAGTTCAAAGTTTTGTGTACTACTCCAAATAAGTATGTTGTCGT
TGATGCTGCAGGTGCAGTAAAGCCTCAGTGTTGTGTGGATATTGTGATTCGTCATCGAGATGTTCGATCCTGTCA
CTATGGTGTAATAGACAAATTCCGTCTCCAAGTTTCCGAGCAAAGCCAAAGGAAGGCTTTGGGAAGAAAAGAGGT
TGTTGCTACTCTTCTCCCATCAGCAAAAGAACAACAAAAGGAAGAAGAGGAAAAAAGATTAAAGGAACATTTAAC
TGAAAGTTTATTTTTTGAGCAGTCGTTTCAACCAGAAAACAGAGCTGTATCCTCAGGACCTAGTTTACTAACTGT
CTTCCTGGGAGTGGTGTGCATTGCAGCCCTGATGCTGCCTACACTGGGGGATGTGGAATCGCTGGTGCCTCTCTA
CCTCCACTTAAGTGTGAATCAAAAATTAGTGGCTGCTTATATCTTAGGTCTTATCACAATGGCCATACTTAGAAC
A**TGA**GCAAGGATTTCAATTGACTTCTGAAGTAAATCTGTCTTGAAAATATGAATGTGGACTGCCTTTTATCTCTA
TTTCACTCCATTAACATGCAACAAACTATTGAATGATTTCAAATAATTGCAAATGTATAATATATATTTTAAATT
ATAATTTAATTTGAAGGACTGCAGAACATTATTTTACAGACAGCAAGGATGCTTCTGAGTGACACCTAGGAAATT
ATTTGAAGAAATTCTTTTTATATCTATACCTGTTGTGTAAGAAACTTTAAAACATTTGTTATTTTCTCACCTTTT
TTTCTAATTCACTTTGATTGCTAGGGGTCATGTATGCTTCGAAGTTACAGGACTAAAAGAGCAAACTGACCGGCC
TAAAACTAAAATGACATTTATTCCCTAGCTACAAACATCAGCGTTATTATGTTAATTATACCTTGCCCTCTATCA
TTATAAATGGTTGCCATGGTGTTTCTAAAAATAAGTGTTTTACCATTAATGTGTAGAGGGCAAACAAAGCATAAA
GTACTAAGGGATCATGCTTATCCTAGGGTCTCACAGAAGAGAGGACATATTTAATTAATCTTGTGAATTACAGAA
CAGGTTGTGGTCCAGACACCAAGAATCATAGGGGTTTTTTTTAAAAAACCTAATAGAAGTAGGGTGACCTCTCT
CTTTGGTCTAAGAGTTCTAAAGGAAGGTAGGCATCTGTTTAATTAGTTGGTTCACCCTGGCTTTACCTCTGGTTA
ATGCTTTGTGTTAATAGGAAGGAAAAATCACTTTATCTTTTCTTCCAAGCCCCTCCCTGCCTGACTTACCCAGAC
TGGGATTACCAGATACCAGGTGATTTATGTGGAGATGATTTTTCACCTTTAAACTCTAAGCCAAGTGTAAGAAAC
TCTTGATAGCTATGTCTATTTTATATCAGTCACTGAGACTTTTTTTTAAGTTTTTATTTATTATTAAGACAACTT
TGCCAAAAAAGTCCCCTAAGCACAACTATTTACATTTCTTTATAGCCTCTTCTGATCTCTAACACATATGCAGTT
TTAACTGTTATTTTCATAGTAACTGATCTTTTGTCTAAGGATTTTTACCTGAAAGCACAATGTATTGAGTCTCTT
GAAAATCATCTTTCAGATCTTTTTACAGAATGAACTTATGCACTGCTACTGTAGTATTCTCAAGGAATATATGTA
AACACAAATGTATGCCTGAGGTTGGTTTTTGCAGAAAACAGTCTCTGCTTCTAAAAACTTCTATGTCTAGTCTTC
CATAGGAAATCCTCACTGTTTAACCATGTGAGGAGCCTAAGTCATTAAACGGATCATGTCTGTACATTGTGTAAT
GAATGAAAAGCACATAAATGTAATCTACTTTGAACTTTGTAAAAATGATGTGTGGAGGCTATTCTTGTTTCTCCA
TCTCAAGTCCTGTGTGTGCACGTGTGTGCAAGTGCACATGTGTGTGTAATAACACATTGTAAAGAACAGAAAT
TACTTTAAAAAATAAACAGAAATGGAGACCTGA

2462/2825
FIGURE 2181

MHQQKRQPELVEGNLPVFVFPTELIFYADDQSTHKQVLTLYNPYEFALKFKVLCTTPNKYVVVDAAGAVKPQCCV
DIVIRHRDVRSCHYGVIDKFRLQVSEQSQRKALGRKEVVATLLPSAKEQQKEEEEKRLKEHLTESLFFEQSFQPE
NRAVSSGPSLLTVFLGVVCIAALMLPTLGDVESLVPLYLHLSVNQKLVAAYILGLITMAILRT

FIGURE 2182

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GACTTTTCCCACACACTGGATTGTGAGGCTCTTCTTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCT
TTATGTCTCTTAACATTCACACCTACTTTTTAAAAACAAATATTATTACTATTTTTATTATTGTTTGTCCTTTAT
AAATTTTCTTAAAGATTAAGAAAATTTAAGACCCCATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTT
TAAATATGTCTTGTATAGTTCATATTCATGGCTGAAACTTGACCACACTATTGCTGATTGTATGGTTTTCACCTG
GACACCGTGTAGAATGCTTGATTACTTGTACTCTTCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTC
AAGCCATCAGGATTTGCTATTTAAGTGGCTTGACAACTGGGCCACCAAAGAACTTGAACTTCACCTTTTAGGATT
TGAGCTGTTCTGGAACACATTGCTGCACTTTGGAAAGTCAAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAA
TTTGCCCAGCTTTGCTTTAAAAGATGTCTTGTTTTTTATATACACATAATCAATAGGTCCAATCTGCTCTCAAGG
CCTTGGTCCTGGTGGGATTCCTTCACCAATTACTTTAATTAAAAATGGCTGCAACTGTAAGAACCCTTGTCTGAT
ATATTTGCAACTATGCTCCCATTTACAAATGTACCTTCTAATGCTCAGTTGCCAGGTTCCAATGCAAAGGTGGCG
TGGACTCCCTTTGTGTGGGTGGGGTTTGTGGGTAGTGGTGAAGGACCGATATCAGAAAAATGCCTTCAAGTGTAC
TAATTTATTAATAAACATTAGGTGTTTGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2183

MQFNFELSFKYVLYSSYSWLKLDHTIADCMVFTWTPCRMLDYLYSSYANMLWAGEMKSSSHQDLLFKWLDNWATK
ELELHLLGFELFWNTLLHFGKSKSSASGALSIENLPSFALKDVLFFIYT

FIGURE 2184

AGATCCAGCAGGTGCGCGAAACCGCGGCGCGCCGCCCTCCGCCGTTAT**ATG**AGGCCCCGCTCCGGCCCCACGCGG
AACCCGCGGCTCCGAGCCTTCGCCGGCGTCCCGACCCGAGGCCGGACCCGAGGCCAGTCCCGCCGCTGCGCAGCC
GAAGCCAGTGCGGGGCCTGAGAGGGACGCGCGCCCCGGGGCCCCGCCGCGGGCACCATGGGCGCTGCCCACTCC
GCGTCTGAGGAGGTGCGGGAGCTCGAGGGCAAGACCGGCTTCTCATCGGATCAGATCGAGCAGCTCCATCGGAGA
TTTAAGCAGCTGAGTGGAGATCAGCCTACCATTCGCAAGGAGAACTTCAACAATGTCCCGGACCTGGAGCTCAAC
CCCATCCGATCCAAAATTGTTCGTGCCTTCTTCGACAACAGGAACCTGCGCAAGGGACCCAGTGGCCTGGCTGAT
GAGATCAATTTCGAGGACTTCCTGACCATCATGTCCTACTTCCGGCCCATCGACACCACCATGGACGAGGAACAG
GTGGAGCTGTCCCGGAAGGAGAAGCTGAGATTTCTGTTCCACATGTACGACTCGGACAGCGACGGCCGCATCACT
CTGGAAGAATATCGAAATGTAAAGTGGTCGAGGAGCTGCTGTCGGGAAACCCTCACATCTAGAAGGAGTCCGCTC
GCTCCATCGCCGACGGGGCCA**TGA**TGGAGGCGGCCAGCGTGTGCATGGGGCAGATGGAGCCTGATCAGGTGTACG
AGGGGATCACCTTCGAGGACTTCCTGAAGATCTGGCAGGGGATCGACATTGAGACCAAGATGCACGTCCGCTTCC
TTAACATGGAAACCATGGCCCTCTGCCACTGACCCACCGCCACCTCCGCGGAGAGACTGCACTTTGCAATGGGGC
CGCCTCCCCGCGTAGCTGGAGCAGCCCAGGCCCGGCGGACAGCCTCTTCCTGCAGCGCCGGTACATAGCCAAGGC
TCGTCTGCGCACCTTGTGTCTTGTAGGGTATGGTATGTGGGACTTCGCTGTTTTTATCTCCAATAAAAAAAAAAA
AAAAAGGTTTGTTAATTAAAAAAAAAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2466/2825
FIGURE 2185

MRPRSGPTRNPRLRAFAGVPTRGRTRGQSRRCAAEASAGPERDARPGAPAAGTMGAAHSASEEVRELEGKTGFSS
DQIEQLHRRFKQLSGDQPTIRKENFNNVPDLELNPIRSKIVRAFFDNRNLRKGPSGLADEINFEDFLTIMSYFRP
IDTTMDEEQVELSRKEKLRFLFHMYDSDSDGRITLEEYRNVKWSRSCCRETLTSRRSPLAPSPTGP

FIGURE 2186

AAACCCAAAGCGGCCGCCGTAGGCGAAGGTGAAG**ATG**GCTGCCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTC
TGCATTGTCCACTGGACGTTTTAGTCATATTCAGACACCAGTTGTTTCCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCCGTGCTTCCAAGTGTCCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCAGTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTCATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGG**TGA**GGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTCACTTGTTTCTCAGTTATTGGATATGTATCTTTGTGTACATATCTTTGCAAAAATGGATAAGT
ACAAAACTTGATGTAAATTGTACCAATGAATACGTAAACATACAGTGACAACATTAAACTTAGAAAAGTTTTAAA
ACTTAATGGATCAGACTTTGCCAGATTGGTTAGGGAAACAGAAATTTAGAATGGTGCATTATTTTTAACAAATG
GTATTGGCTTAACTAGTTGTTTCAGTTATGCTCTTTTAGTTGCAAGGAATCTCAAGTGGGACAAACATAAAAAGA
CTCAAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACCACCT
CACCAACCCCATCTCCCACTCAGAAATCACCTCCCAGCCTCAGGAAGAGTAGAAATTGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTTGCATTGTTAACTCCATTCTC
TCTATTCACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTTCTGTTCCTTTGTAATAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCAGCTCCTGCTGCTAGTCTCCAATTGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTTATACTAGGTCTGGTTGGGTCATTGTCTAGAGTAGGGATTGGCTGTCCTTAAGTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTCACATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTCATTGTGTTCATAACACTTGTCATTTACTGTAACAACATTT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTCATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTTGAAAGATAGGTATTTATTTTTTCTAGAGACAGGAGTTTTGCTCTGTTGCCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCCTCCTGCCTCAGCTTACT
GAGTAAGGATATGTATTTCTTAAAAGTTAGTTTATCCACTTCAGATTTCATGTTTTCATTTGTAAGGATAAACTT
TTCCCACAAATTTTCAACAATCATTGTAGAAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAAA
GTTAAGCATTGTTTACTTGAAGTGGGCAGGGAAGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGGAAGCATTTTCAAACAGCAAAGTACTTTGAAAACCATTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTTGTTAGTAAAATTATGAAATTGAAGTTCTGCAGCATGTCAGGCCAGGATTATTAGGGAGATTCCTCGAAACT
AGTGTGTGTTTATTAAAAGGAGAAAGGATAACAATAGAATGTTCTAAAACCAGAAGTCCAAGTGCGTGTCTACTT
ATGGGACCAATAAATAAAGAACAGACATTTGATTTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCATTTCTTCGCACTTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAAATGGTGCCTGCAGAAGTTGGGGAGAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAAATATGGATGACAAGGGTCTCTGTTACAGGGGCCTCAG
AGCACCTTCGTTTCTCCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAAGGGAATTTCATACATACGATTTTTGTTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGTCTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2187

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSERNLTCGHTSVI
LNRMAPVLPSVLKLPVRSLTYFSARKGKRKTVKAVIDRFLRLHCGLG

FIGURE 2188

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TAGTTATTAAAGTTCCTATGCAGCTCCGCCTCCGTCCGGCCTCATTTCCTCAAAAAATCCCTGCTTTCCCCGCTC
GCCACGCCCTCCTGCTACCCGGCTTTAAAGCTAGTGAGGCACAGCCTGCGGGGAACGTAGCTAGCTGCAAGCAGA
GGCCGGCATGACCACCGAGCAGCGACGCAGCCTGCAAGCCTTCCAGGATTATATCCGGAAGACCCTGGACCCTAC
CTACATCCTGAGCTACATGGCCCCCTGGTTTAGGGAGGAAGAGGTGCAGTATATTCAGGCTGAGAAAAACAACAA
GGGCCCAATGGAGGCTGCCACACTTTTTCTCAAGTTCCTGTTGGAGCTCCAGGAGGAAGGCTGGTTCCGTGGCTT
TTTGGATGCCCTAGACCATGCAGGTTATTCTGGACTTTATGAAGCCATTGAAAGTTGGGATTTCAAAAAAATTGA
AAAGTTGGAGGAGTATAGATTACTTTTAAAACGTTTACAACCAGAATTTAAAACCAGAATTATCCCAACCGATAT
CATTTCTGATCTGTCTGAATGTTTAATTAATCAGGAATGTGAAGAAATTCTACAGATTTGCTCTACTAAGGGGAT
GATGGCAGGTGCAGAGAAATTGGTGGAATGCCTTCTCAGATCAGACAAGGAAACTGGCCCAAAACTTTGAAACT
TGCTTTGGAGAAAGAAAGGAACAAGTTCAGTGAACTGTGGATTGTAGAGAAAGGTATAAAAGATGTTGAAACAGA
AGATCTTGAGGATAAGATGGAAACTTCTGACATACAGATTTTCTACCAAGAAGATCCAGAATGCCAGAATCTTAG
TGAGAATTCATGTCCACCTTCAGAAGTGTCTGATACAAACTTGTACAGCCCATTTAAACCAAGAAATTACCAATT
AGAGCTTGCTTTGCCTGCTATGAAAGGAAAAAACACAATAATATGTGCTCCTACAGGTTGTGGAAAAACCTTTGT
TTCACTGCTTATATGTGAACATCATCTTAAAAAAATTCCCACAAGGACAAAAGGGGAAAGTTGTCTTTTTTGCGAA
TCAGATCCCAGTGTATGAACAGCAGAAATCTGTATTCTCAAAATACTTTGAAAGACATGGGTATAGAGTTACAGG
CATTTCTGGAGCAACAGCTGAGAATGTCCCAGTGGAACAGATTGTTGAGAACAATGACATCATCATTTTAACTCC
ACAGATTCTTGTGAACAACCTTAAAAAGGGAACGATTCCATCACTATCCATCTTTACTTTGATGATATTTGATGA
ATGCCACAACACTAGTAAACAACACCCGTACAATATGATCATGTTTAATTATCTAGATCAGAAACTTGGAGGATC
TTCAGGCCCACTGCCCCAGGTCATTGGGCTGACTGCCTCGGTTGGTGTTGGGGATGCCAAAAACACAGATGAAGC
CTTGGATTATATCTGCAAGCTGTGTGCTTCTCTTGATGCGTCAGTGATAGCAACAGTCAAACACAATCTGGAGGA
ACTGGAGCAAGTTGTTTATAAGCCCCAGAAGTTTTTCAGGAAAGTGGAATCACGGATTAGCGACAAATTTAAATA
CATCATAGCTCAGCTGATGAGGGACACAGAGAGTCTGGCAAAGAGAATCTGCAAAGACCTCGAAAACTTATCTCA
AATTCAAAATAGGGAATTTGGAACACAGAAATATGAACAATGGATTGTTACAGTTCAGAAAGCATGCATGGTGTT
CCAGATGCCAGACAAAGATGAAGAGAGCAGGATTTGTAAAGCCCTGTTTTTATACACTTCACATTTGCGGAAATA
TAATGATGCCCTCATTATCAGTGAGCATGCACGAATGAAAGATGCTCTGGATTACTTGAAAGACTTCTTCAGCAA
TGTCCGAGCAGCAGGATTCGAAGAGATTGAGCAAGATCTTACTCAGAGATTTGAAGAAAGCTGCAGGAACTAGA
AAGTGTTTCCAGGGATCCCAGCAATGAGAATCCTAAACTTGAAGACCTCTGCTTCATCTTACAAGAAGAGTACCA
CTTAAACCCAGAGACAATAACAATTCTCTTTGTGAAAACCAGAGCACTTGTGGACGCTTTAAAAAATTGGATTGA
AGGAAATCCTAAACTCAGTTTTCTAAAACCTGGCATATTGACTGGACGTGGCAAAACAAATCAGAACACAGGAAT
GACCCTCCCGGCACAGAAGTGTATATTGGATGCATTCAAAGCCAGTGGAGATCACAATATTCTGATTGCCACCTC
AGTTGCTGATGAAGGCATTGACATTGCACAGTGCAATCTTGTCATCCTTTATGAGTATGTGGGCAATGTCATCAA
AATGATCCAAACCAGAGGCAGAGGAAGAGCAAGAGGTAGCAAGTGCTTCCTTCTGACTAGTAATGCTGGTGTAAT
TGAAAAAGAACAAATAAACATGTACAAAGAAAAATGATGAATGACTCTATTTTACGCCTTCAGACATGGGACGA
AGCAGTATTTAGGGAAAAGATTCTGCATATACAGACTCATGAAAAATTCATCAGAGATAGTCAAGAAAACCAAA
ACCTGTCCCTGATAAGGAAAATAAAAAACTGCTCTGCAGAAAGTGCAAAGCCTTGGCATGTTACACAGCTGACGT
AAGAGTGATAGAGGAATGCCATTACACTGTGCTTGGAGATGCTTTTAAGGAATGCTTTGTGAGTAGACCACATCC
CAAGCCAAAGCAGTTTTCAAGTTTTGAAAAAGAGCAAAGATATTCTGTGCCCGACAGAACTGCAGCCATGACTG
GGGAATCCATGTGAAGTACAAGACATTTGAGATTCCAGTTATAAAAATTGAAAGTTTTGTGGTGGAGGATATTGC
AACTGGAGTTCAGACACTGTACTCGAAGTGGAAGGACTTTCATTTTGAGAAGATACCATTTGATCCAGCAGAAAT
GTCCAAATGATATCAGGTCCTCAATCTTCAGCTACAGGGAATGAGTAACTTTGAGTGGAGAAGAAACAAACATAG
TGGGTATAATCATGGATCGCTTGTACCCCTGTGAAAATATATTTTTTAAAAATAAAAAAAAAAAA
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FIGURE 2189

MTTEQRRSLQAFQDYIRKTLDPTYILSYMAPWFREEEVQYIQAEKNNKGPMEAATLFLKFLLELQEEGWFRGFLD
ALDHAGYSGLYEAIESWDFKKIEKLEEYRLLLKRLQPEFKTRIIPTDIISDLSECLINQECEEILQICSTKGMMA
GAEKLVECLLRSDKENWPKTLKLALEKERNKFSELWIVEKGIKDVETEDLEDKMETSDIQIFYQEDPECQNLSEN
SCPPSEVSDTNLYSPFKPRNYQLELALPAMKGKNTIICAPTGCGKTFVSLLICEHHLKKFPQGQKGKVVFFANQI
PVYEQQKSVFSKYFERHGYRVTGISGATAENVPVEQIVENNDIIILTPQILVNNLKKGTIPSLSIFTLMIFDECH
NTSKQHPYNMIMFNYLDQKLGGSSGPLPQVIGLTASVGVGDAKNTDEALDYICKLCASLDASVIATVKHNLEELE
QVVYKPQKFFRKVESRISDKFKYIIAQLMRDTESLAKRICKDLENLSQIQNREFGTQKYEQWIVTVQKACMVFQM
PDKDEESRICKALFLYTSHLRKYNDALIISEHARMKDALDYLKDFFSNVRAAGFEEIEQDLTQRFEEKLQELESV
SRDPSNENPKLEDLCFILQEEYHLNPETITILFVKTRALVDALKNWIEGNPKLSFLKPGILTGRGKTNQNTGMTL
PAQKCILDAFKASGDHNILIATSVADEGIDIAQCNLVILYEYVGNVIKMIQTRGRGRARGSKCFLLTSNAGVIEK
EQINMYKEKMMNDSILRLQTWDEAVFREKILHIQTHEKFIRDSQEKPKPVPDKENKKLLCRKCKALACYTADVRV
IEECHYTVLGDAFKECFVSRPHPKPKQFSSFEKRAKIFCARQNCSHDWGIHVKYKTFEIPVIKIESFVVEDIATG
VQTLYSKWKDFHFEKIPFDPAEMSK

FIGURE 2190

GGGGGGCACAGGGGAGACTAAAAAGGCCAGGGAAGTTGGCCTGCCGGAAGTTCCCAGGGAGAAGGCAGCGCGTTG
TACCCGAGTTACCTGTAGTCAACCACAGTCTGAAAATATTAAGGTATTTTAAGACAGAAAGAGAGAGAGGAGAGA
AACCGCATTCACAAAAAAGAAATCCTCTTTTTAGAACATCTCTTGGTGGTACCATCAGAA**ATG**TCTTCCTTAAGT
GGAAAAGTCCAAACCGTTTTGGGCCTTGTAGAGCCAAGCAAACTGGGCCGTACCCTGACCCATGAACACCTGGCC
ATGACCTTTGACTGCTGTTACTGTCCACCTCCCCCGTGCCAGGAAGCTATTTCCAAAGAACCTATCGTGATGAAA
AATTTATATTGGATTCAGAAAAACGCCTATTCCCATAAAGAAAACCTTCAATTAAATCAGGAGACAGAAGCCATA
AAGGAAGAACTGTTGTATTTTAAAGCTAATGGTGGAGGGGCTTTGGTGGAAAACACAACCACTGGGATTAGCCGA
GACACACAGACGTTGAAGAGGCTTGCAGAAGAGACTGGCGTCCATATCATATCTGGAGCCGGGTTTTATGTGGAT
GCAACTCACTCCTCAGAGACCAGGGCCATGTCAGTGGAGCAGCTTACCGATGTCCTTATGAATGAAATTCTCCAT
GGAGCTGATGGAACCAGTATCAAGTGTGGCATTATTGGAGAAATTGGTTGCTCCTGGCCTTTGACTGAGAGTGAA
AGAAAGGTTCTCCAGGCCACAGCTCATGCCCAGGCTCAGCTTGGTTGTCCTGTTATTATCCATCCTGGACGGAGC
TCCAGGGCACCATTTCAGATTATCCGAATATTGCAAGAAGCAGGCGCAGACATCTCCAAAACAGTCATGTCACAC
CTGGATAGGACTATTCTTGATAAGAAAGAGCTCTTGGAGTTTGCTCAACTTGGCTGCTACTTGGAATATGATCTC
TTTGGTACTGAACTACTTCATTACCAACTCGGCCCAGATATTGACATGCCTGATGATAACAAAAGAATTAGAAGG
GTGCGTCTCCTGGTGGAAGAGGGCTGTGAAGATCGAATTCTGGTAGCACATGACATACATACGAAAACCCGGCTG
ATGAAATATGGAGGTCACGGCTATTCTCATATACTCACCAATGTTGTTCCTAAAATGTTGCTGAGAGGCATAACT
GAGAATGTGCTTGATAAGATTCTAATAGAGAACCCTAAGCAATGGCTAACTTTCAAA**TAG**GATGGTTGCTTATGA
ATTCACACCTTGAGTATAAAACTTGCAGAGAACATTCAGCGATTTCCAGTCCACTGTGAGATATTAATCAGTTAC
CTAGGACTAATGACAGATCATTTCCTTCTGATGAGAACTAGGAGGGTTTGCCTTCTCTGAGACCAGCTATTACAA
CTGTGCCTCTAGGGAGTTACTCAGCCTAATTGAGCCCTATTATTTTAACTTAACAAAATAAATACAGAAGTACCT
ATTTCTAAACAATGATTTAAAGTCTATATCCCCTAAGCGGAGTTGTTGTTTTTCTCCCTAATCTATCAGCTGCAC
TACTTGAGAAAATTTAAAGTGTTTCTAGTTAAATTATTTCCTTCTTGAGCGATCTAATGTTTCTTGTAATATTGA
TGATCCTACTAATTATCCTGCTGTTCTTTAATTAATGCTTAATGAATAATATGGCACTGTAAAATAGCTTCTGCA
ACAAGGGAAGTTAAATTTTGAGACTTTTTTCCCCAAAGGATACTGACTGTAATACAATTACCAATTCACAATGAT
AAAAATATTTTGAAAGGTTAATTTTATACTGTCCACCTATCTATATATTCTTCTACTGAAATGATTTTGATATCT
TTGGCTTTCCGGTATCTATTTTTGCCATACATTTTGCTGTTTTGCAAAGTTTGTATAAGAACACATAACACTACT
GAATTATAAAAATTCAATCATAAAAGTCAAAATATATTACATAATATAGTTTAATGAATCATTACATTTATAATA
ACAAAGGCCACAATTTAATTAATTGGTAAGATATAATGCAAAAAAAAAAAGAGAAATGTTTGCCTTATGTATATT
CCCTTTATTTCCTTTACCTTTTGTTTTTCCTTGGACCTAAACAGAGAAATAATGCTTATGTATCTGAAGAAAAG
GTCAGATCTATTGGAAATGACAGCCCGATACTTGAGCCTCCTCTTTAAAAGGTATCCAGCCCTGATATTTTGTGT
AAATAAAATGTTTTTAAAACCTGTTAGTTAAAACACTTAGGTGATGGGCACTGCTGCTTATAAATTCATCTTTTG
GTTGAATCCTCACTATGCTATTTGGTACCTAAAAATATTCTCCAAACCCTTGCTGCCAGTTCCTCTTTGATAAAT
ATATAGTTAATTCGAAATAAAATCCATTGCAATTCATTTATGAGTTATCTTACATATCACAAAGACCAATTAGAA
TTAGTCATTATTCTTGATGAAGAGTCTGTTTTAATCATAAAAATCATGACAGTTACTCAGACCCAGGCATTTCA
ACAGAGCTAACACCACCTTCAGATAGGCACACCATGCATAACTCTTGGGAAGTTGAGCTTTGCTAAATAAAAGAT
ATTTCTGCTGATCAAAGATGATCAAGCTTTCTGTGTATTGGAACAGAAAGTAACAAAGAGGAATGAGCCAGGAGA
ACAAACTAATTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2191

MSSLSGKVQTVLGLVEPSKLGRTLTHEHLAMTFDCCYCPPPPCQEAISKEPIVMKNLYWIQKNAYSHKENLQLNQ
ETEAIKEELLYFKANGGGALVENTTTGISRDTQTLKRLAEETGVHIISGAGFYVDATHSSETRAMSVEQLTDVLM
NEILHGADGTSIKCGIIGEIGCSWPLTESERKVLQATAHAQAQLGCPVIIHPGRSSRAPFQIIRILQEAGADISK
TVMSHLDRAILDKKELLEFAQLGCYLEYDLFGTDLLHYQLGPDIDMPDDNKRIRRVRLLVEEGCEDRILVAHDIH
TKTRLMKYGGHGYSHILTNVVPKMLLRGITENVLDKILIENPKQWLTFK

2473/2825
FIGURE 2192

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AACTGATCGCGGCCTAGTCCCGACGCGTGTGTGCTAGTGAGCCGGAGCCGGCGACGGCGGCAGTGGCGGCCCGGC
CTGCAGGAGCCCGACGGGGTCTCTGCCATGGGGGAGTGACGCGCCTGCACCCGCTGTTCCGCGGCAGCGGCGAGA
CATGAGGAGACCCCGCGACAGGGGCAGCGGCGGCGGCTCGTGAGCCCCGGGATGGAGGAGAAATACGGCGGGGAC
GTGCTGGCCGGCCCCGGCGGCGGCGGCGGCCTTGGGCCGGTGGACGTACCCAGCGCTCGATTAACAAAATATATT
GTGTTACTATGTTTCACTAAATTTTTGAAGGCTGTGGGACTTTTCGAATCATATGATCTCCTAAAAGCTGTTCAC
ATTGTTCAGTTCATTTTTATATTAAAACTTGGGACTGCATTTTTTATGGTTTTGTTTCAAAAGCCATTTTCTTCT
GGGAAAACTATTACCAAACACCAGTGGATCAAAATATTTAAACATGCAGTTGCTGGGTGTATTATTTCACTCTTG
TGGTTTTTTGGCCTCACTCTTTGTGGACCACTAAGGACTTTGCTGCTATTTGAGCACAGTGATATTGTTGTCATT
TCACTACTCAGTGTTTTGTTCACCAGTTCTGGAGGAGGACCAGCAAAGACAAGGGGAGCTGCTTTTTTCATTATT
GCTGTGATCTGTTTATTGCTTTTTGACAATGATGATCTC**ATG**GCTAAAATGGCTGAACACCCTGAAGGACATCAT
GACAGTGCTCTAACTCATATGCTTTACACAGCCATTGCCTTCTTAGGTGTGGCAGATCACAAGGGTGGAGTATTA
TTGCTAGTACTGGCTTTGTGTTGTAAAGTTGGTTTTCATACAGCTTCCAGAAAGCTCTCTGTCGACGTTGGTGGA
GCTAAACGTCTTCAAGCTTTATCTCATCTTGTTTCTGTGCTTCTCTTGTGCCCATGGGTCATTGTTCTTTCTGTG
ACAACTGAGAGTAAAGTGGAGTCTTGGTTTTCTCTCATTATGCCTTTTGCAACGGTTATCTTTTTTGTCATGATC
CTGGATTTCTACGTGGATTCCATTTGTTCAGTCAAAATGGAAGTTTCCAAATGTGCTCGTTATGGATCCTTTCCC
ATTTTTATTAGTGCTCTCCTTTTTGGAAATTTTTGGACACATCCAATAACAGACCAGCTTCGGGCTATGAACAAA
GCAGCACACCAGGAGAGCACTGAACACGTCCTGTCTGGAGGAGTGGTAGTGAGTGCTATATTCTTCATTTTGTCT
GCCAATATCTTATCATCTCCCTCTAAGAGAGGACAAAAAGGTACCCTTATTGGATATTCTCCTGAAGGAACACCT
CTTTATAACTTCATGGGTGATGCTTTTCAGCATAGCTCTCAATCGATCCCTAGGTTTATTAAGGAATCACTAAAA
CAAATTCTTGAGGAGAGTGACTCTAGGCAGATCTTTTACTTCTTGTGCTTGAATCTGCTTTTTACCTTTGTGGAA
TTATTCTATGGCGTGCTGACCAATAGTCTGGGCCTGATCTCGGATGGATTCCACATGCTTTTTGACTGCTCTGCT
TTAGTCATGGGACTTTTTGCTGCCCTGATGAGTAGGTGGAAAGCCACTCGGATTTTCTCCTATGGGTACGGCCGA
ATAGAAATTCTGTCTGGATTTATTAATGGACTTTTTCTAATAGTAATAGCGTTTTTTGTGTTTATGGAGTCAGTG
GCTAGATTGATTGATCCTCCAGAATTAGACACTCACATGTTAACACCAGTCTCAGTTGGAGGGCTGATAGTAAAC
CTTATTGGTATCTGTGCCTTTAGCCATGCCCATAGCCATGCCCATGGAGCTTCTCAAGGAAGCTGTCACTCATCT
GATCACAGCCATTCACACCATATGCATGGACACAGTGACCATGGGCATGGTCACAGCCACGGATCTGCGGGTGGA
GGCATGAATGCTAACATGAGGGGTGTATTTCTACATGTTTTGGCAGATACTCTTGGCAGCATTGGTGTGATCGTA
TCCACAGTTCTTATAGAGCAGTTTGGATGGTTCATCGCTGACCCACTCTGTTCTCTTTTTATTGCTATATTAATA
TTTCTCAGTGTTGTTCCACTGATTAAAGATGCCTGCCAGGTTCTACTCCTGAGATTGCCACCAGAATATGAAAAA
GAACTACATATTGCTTTAGAAAAGATACAGAAAATTGAAGGATTAATATCATACCGAGACCCTCATTTTTGGCGT
CATTCTGCTAGTATTGTGGCAGGAACAATTCATATACAGGTGACATCTGATGTGCTAGAACAAAGAATAGTACAG
CAGGTTACAGGAATACTTAAAGATGCTGGAGTAAACAATTTAACAATTCAAGTGGAAAAGGAGGCATACTTTCAA
CATATGTCTGGCCTAAGTACTGGATTTCATGATGTTCTGGCTATGACAAAACAAATGGAATCCATGAAATACTGC
AAAGATGGTACTTACATCATG**TGA**GATAACTCAAGAATTACCCCTGGAGAATAAACAATGAAGATTAAATGACTC
AGTATTTGTAATATTGCCAGAAGGATAAAAATTACACATTAACTGTACAGAAACAGAGTTCCCTACTACTGGATC
AAGGAATCTTTCTTGAAGGAAATTTAAATACAGAATGAAACATTAATGGTAAAGTGGAGTAATTATTTAAATTA
TGTGTATAAAAGGAATCAAATTTTGAGTAAACATGATGTATTACATCATCTTCGAAAATAGATATGATGGATTCT
AGTGAAGACCAAAATTACTTCTGTTTACTTTCTATCAGGAAGCATCTCCATTGTAAATATGTATTTACATGTTTA
TTACAAAGACCCAAATGAAAAATTTTTAGTCCATTTTTTGCATAGCCTAAAGATAAAATAGGAATAAAAGTTCTA
TATTTATGGAAAAAAAAAAAAAAAAAA
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FIGURE 2193

MAKMAEHPEGHHDSALTHMLYTAIAFLGVADHKGGVLLLVLALCCKVGFHTASRKLSVDVGGAKRLQALSHLVSV
LLLCPWVIVLSVTTESKVESWFSLIMPFATVIFFVMILDFYVDSICSVKMEVSKCARYGSFPIFISALLFGNFWT
HPITDQLRAMNKAAHQESTEHVLSGGVVVSAIFFILSANILSSPSKRGQKGTLIGYSPEGTPLYNFMGDAFQHSS
QSIPRFIKESLKQILEESDSRQIFYFLCLNLLFTFVELFYGVLTNSLGLISDGFHMLFDCSALVMGLFAALMSRW
KATRIFSYGYGRIEILSGFINGLFLIVIAFFVFMESVARLIDPPELDTHMLTPVSVGGLIVNLIGICAFSHAHSH
AHGASQGSCHSSDHSHSHHMHGHSDHGHGHSHGSAGGGMNANMRGVFLHVLADTLGSIGVIVSTVLIEQFGWFIA
DPLCSLFIAILIFLSVVPLIKDACQVLLLRLPPEYEKELHIALEKIQKIEGLISYRDPHFWRHSASIVAGTIHIQ
VTSDVLEQRIVQQVTGILKDAGVNNLTIQVEKEAYFQHMSGLSTGFHDVLAMTKQMESMKYCKDGTYIM

FIGURE 2194

GGCAGCGGGCGAAAGGAGCCGGGGCCTGGAGGTTTGCGTACCGGTCGCCTGGTCCCGGCACCAGCGCCGCCCAGT
GTGGTTTCCCATAAGGAAGCTCTTCTTCCTGCTTGGCTTCCACCTTTAACCCTTCCACCTGGGAGCGTCCTCTAA
CACATTCAGACTACAAGTCCAGACCCAGGAGAGCAAGGCCCAGAAAGAGGTCAAA**ATG**GGGTTTATATTTTCAAA
ATCTATGAATGAAAGCATGAAAAATCAAAAGGAGTTCATGCTTATGAATGCTCGACTTCAGCTGGAAAGGCAGCT
CATCATGCAGAGTGAAATGAGGGAAAGACAAATGGCCATGCGGATTGCGTGGTCTCGGGAATTCCTCAAATATTT
TGGAACTTTTTTTGGCCTTGCAGCCATCTCTTTAACAGCTGGAGCGATTAAAAAAAAGAAGCCAGCCTTCCTGGT
CCCGATTGTTCCATTAAGCTTTATCCTCACCTACCAGTATGACTTGGGCTATGGAACCCTTTTAGAAAGAATGAA
AGGTGAAGCTGAGGACATACTGGAAACAGAAAAGAGTAAATTGCAGCTGCCAAGAGGAATGATCACTTTTGAAAG
CATTGAAAAAGCCAGAAAGGAACAGAGTAGATTCTTCATAGACAAA**TGA**AATCATGCTTACCAATCAAATCTCAA
AGCACAGAATTATTGACTTGAATCATGGTTTTTACAGTTTTTTAAATGCTCAAGATTTTGATATTATAGATTTTA
TTTTAAAATATTAAAATGCAAGATAGTTTTGAGCTATTTTAAAATAAAATTTATAACATTCAACACAAAATCATG
GAGGTGCTCTAAATAACTTTTAGATTTCCTCTCTGTGTGCATTACCAATATCTAAGTGTAAAATTAATAAATT
GTTTTGAATTCCTGGAAAAAAAAAAAA

2476/2825
FIGURE 2195

MGFIFSKSMNESMKNQKEFMLMNARLQLERQLIMQSEMRERQMAMRIAWSREFLKYFGTFFGLAAISLTAGAIKK
KKPAFLVPIVPLSFILTYQYDLGYGTLLERMKGEAEDILETEKSKLQLPRGMITFESIEKARKEQSRFFIDK

FIGURE 2196

TTAGCACCTGGCACTAGGCGGAGAGAGGCGGTAAGCCGCGAGGAGGAAAGGACTCACGTCCCGCTGTGGACCGAT
CCTGCTAAGCAGAGAATCGCTGTGGCCGGACGACGGGGCGTCGAGACAAGAAGAAAGACGTTGGCAACTCCCACA
AGGCCTAGGGCCACGTCCCGCCGTCCTCGGCTGCTGAGCCTGATGGGACAAGTAGTTTTGCGAACGGCTTAACCT
ACTGATTGAAGAGGTCGGAAGCTCTGAGGCCCGGGGCTTCCGGAGGTCGCGGAG**ATG**GAATTGGAGCAGAGAGAA
GGGACCATGGCAGCCGTGGGCTTTGAGGAGTTCTCAGCGCCGCCAGGCTCAGAGTTGGCGTTGCCTCCCCTATTT
GGTGGCCACATCCTGGAGAGCGAGCTGGAGACGGAAGTGGAGTTTGTGTCAGGTGGTCTGGGCGGCTCAGGGCTC
CGGGAGCGAGATGAAGAGGAAGAGGCAGCCCGGGGTCGGCGGCGGCGCCAGCGGGAATTAAATCGCAGAAAGTAC
CAGGCACTAGGTCGGCGCTGCCGGGAGATCGAGCAGGTGAACGAGCGGGTCCTGAACAGGCTCCATCAGGTGCAG
AGGATAACTCGGAGGCTGCAGCAGGAACGGAGGTTCCTCATGAGAGTGCTGGACTCCTACGGGGATGACTACCGG
GCCAGCCAGTTCACCATTGTGCTGGAGGATGAGGGCAGCCAGGGCACGGATGCCCCCACCCCAGGCAATGCGGAG
AATGAGCCTCCAGAGAAAGAGACACTGTCCCCGCCCAGAAGGACTCCTGCACCCCCAGAACCCGGCAGCCCAGCC
CCCGGTGAGGGGCCCAGTGGGCGGAAGAGGCGGCGAGTGCCACGGGATGGACGCCGAGCAGGAAATGCGCTGACT
CCAGAGCTGGCCCCGGTGCAGATTAAGGTTGAGGAAGACTTTGGCTTTGAAGCAGATGAGGCCCTGGATTCCAGT
TGGGTTTCTCGGGGTCCAGACAAACTGCTGCCCTACCCGACCCTGGCCAGCCCAGCCTCTGAC**TGA**CGCATGCCC
AATAAACTGACCCCACACCAAAAAAAA

2478/2825
FIGURE 2197

MELEQREGTMAAVGFEEFSAPPGSELALPPLFGGHILESELETEVEFVSGGLGGSGLRERDEEEEAARGRRRRQR
ELNRRKYQALGRRCREIEQVNERVLNRLHQVQRITRRLQQERRFLMRVLDSYGDDYRASQFTIVLEDEGSQGTDA
PTPGNAENEPPEKETLSPPRRTPAPPEPGSPAPGEGPSGRKRRRVPRDGRRAGNALTPELAPVQIKVEEDFGFEA
DEALDSSWVSRGPDKLLPYPTLASPASD

FIGURE 2198

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AGAGAGCTGTTTACTAGGCACGACTGCGAAGGCAAGGGGGCACCAGCTCAGGACTGCATCTGCCTGCCATTTCCC
TTCCACTCCTCCTTTCTGGAGTCTGACATTAGAAAGCCAGCGAGAAGGAAGATTCAAACAACCAACCCTGATTTC
CTGCTTCTCCTTTTCATGAGTGTTCCTGTGGTCTCTGCACCTCCTTTCTGTCCCCCGGCAGAGGGCAGTAGAGAT
GGCCGGCCCAAGGCCTCGGTGGCGCGACCAGCTGCTGTTCATGAGCATCATAGTCCTCGTGATTGTGGTCATCTG
CCTGATGTTATACGCTCTTCTCTGGGAGGCTGGCAACCTCACTGACCTGCCCAACCTGAGAATCGGCTTCTATAA
CTTCTGCCTGTGGAATGAGGACACCAGCACCCTACAGTGTCACCAGTTCCCTGAGCTGGAAGCCCTGGGGGGTGCC
TCGGGTTGGCCTGGGCCTGGCCAGGCTTGGCGTGTACGGGTCCCTGGTCCTCACCCTCTTTGCCCCCCAGCCTCT
CCTCCTAGCCCAGTGCAACAGTGATGAGAGAGCGTGGCGGCTGGCAGTGGGCTTCCTGGCTGTGTCCTCTGTGCT
GCTGGCAGGCGGCCTGGGCCTCTTCCTCTCCTATGTGTGGAAGTGGGTCAGGCTCTCCCTCCCGGGGCCTGGGTT
TCTAGCTCTGGGCAGCGCCCAGGCCTTACTCATCCTCTTGCTTATAGCCATGGCTGTGTTCCCTCTGAGGGCTGA
GAGGGCTGAGAGCAAGCTTGAGAGCTGC**TAA**AGGCTTACGTGATTGCAAGGGTTCAGTTCCAACCATAGTCAGAG
GTGGCACATCTGCTCAGCCATCTCATTTTACAGCTAACGCTGATCTCCAGCTCCAGCGATGGAACCCACTACAGA
GGAGGTGGGGCCCCTGTGTCAAAGAGGCCGAGGGGCAGCAAGGGCAGCCAGGGCACCTGTGACTTCTTAGTACAA
GATTGTCTGTCCTTCAGGACTTCCAAGGCTCCCAAAGACTCCCTAAACCATGCAGCTCATTGTCACACCAATTCC
TGCTTTAATTAATGGATCTGAGCAAATCTTCCTCTAGCTTCAGGAGGGTGGGGAGGGAGTGATTGCCGTCATGGG
GCCAGACTTCCAGGCTGATTTGCCAAATGCCAAAATGAAACCTAGCAAAGAACTTACGGCAACAAACGAGGACAT
TAAAAGAGCGAGCACCTCAGTGTCTCTGGGGACATGGTTAAGGAGCTTCCACTCAGCCCACCATAGTGAGTGGGC
CGCCATAAGCCATCACTGGAACTCCAACCCCAGAGGTCCAGGAGTGATCTCTGAGTGACTCAACAAAGACAGGAC
ACATGGGGTACAAAGACAAGGCTTGACTGCTTCAAAGCTTCCCTGGACCTGAAGCCAGACAGGGCAGAGGCGTCC
GCTGACAAATCACTCCCATGATGAGACCCTGGAGGACTCCAAATCCTCGCTGTGAACAGGACTGGACGGTTGCGC
ACAAACAAACGCTGCCACCCTCCACTTCCCAACCCAGAACTTGGAAAGACATTAGCACAACTTACGCATTGGGGA
ATTGTGTGTATTTTCTAGCACTTGTGTATTGGAAAACCTGTATGGCAGTGATTTATTCATATATTCCTGTCCAAA
GCCACACTGAAAACAGAGGCAGAGACATGT
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2480/2825
FIGURE 2199

MAGPRPRWRDQLLFMSIIVLVIVVICLMLYALLWEAGNLTDLPNLRIGFYNFCLWNEDTSTLQCHQFPELEALGV
PRVGLGLARLGVYGSLVLTLFAPQPLLLAQCNSDERAWRLAVGFLAVSSVLLAGGLGLFLSYVWKWVRLSLPGPG
FLALGSAQALLILLLIAMAVFPLRAERAESKLESC

FIGURE 2200

GCTCCGGGTGTCCCGAGAGTTGTCCTGCGCCGGTGTTCCCACGTGCGGCCTGAACCTGAGCGCATAATGTTATGA
GGAG**ATG**GGAGCACTAGTGATTCGCGGTATCAGGAATTTCAACCTAGAGAACCGAGCGGAACGGGAAATCAGCAA
GATGAAGCCCTCTGTCGCTCCCAGACACCCCTCTACCAACAGCCTCCTGCGAGAGCAGATTAGTCTCTATCCAGA
AGTTAAAGGAGAGATTGCTCGTAAAGATGAAAAGCTGCTGTCGTTTCTAAAAGATGTGTATGTTGATTCCAAAGA
TCCTGTGTCTTCCTTGCAGGTAAAAGCTGCTGAAACATGTCAAGAGCCGAAGGAATTCAGATTGCCGAAAGACCA
TCATTTTGATATGATAAATATTAAGAGCATTCCCAAAGGCAAAATTTCCATTGTAGAAGCATTGACACTTCTCAA
TAATCATAAGCTTTTCCCAGAAACCTGGACTGCTGAGAAAATAATGCAAGAATACCAGTTAGAACAGAAAGATGT
GAATTCTCTTCTTAAATATTTTGTTACTTTTGAAGTCGAAATCTTCCCTCCTGAAGACAAGAAAGCAATACGATC
AAAA**TGA**AGAAAATCACAGAAATTTCCTATGTGTACTCCTCATCCCTCCTGCTGTATATTTTCTCATTTTTTGCG
TAATAAATTATGTTAATTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2482/2825
FIGURE 2201

MGALVIRGIRNFNLENRAEREISKMKPSVAPRHPSTNSLLREQISLYPEVKGEIARKDEKLLSFLKDVYVDSKDP
VSSLQVKAAETCQEPKEFRLPKDHHFDMINIKSIPKGKISIVEALTLLNNHKLFPETWTAEKIMQEYQLEQKDVN
SLLKYFVTFEVEIFPPEDKKAIRSK

2483/2825
FIGURE 2202

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GAGTTTTCATTTGTGGTGAGATTCTCTCCCAGGCCACAAGACATTTCCTGCTCGGAACCTTGTTTACTAATTTCC
ACTGCTTTTAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCCAGAACTCCAACTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTTCCCGTGCCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTATTTGTGATGACTATATGGCAACTC
TTTGCTGTCCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAACTGATGGCATGAAAAAAATCAAATTTTTGATTTATTAT
AAATGAATGTTGTCCCTGAACTTAGCTAAATGGTGCAACTTAGTTTCTCCTTGCTTTCATATTATCGAATTTCCT
GGCTTATAAACTTTTTAAATTACATTTGAAATATAAACCAAATGAAATATTTTAACTGATAAAAAAAAAAAAAAA
AAATAAAAAA
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FIGURE 2203

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLCQIKRDINRRRAMRTF

2485/2825
FIGURE 2204

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GTGACCGGAGGCGAGAAACCCCGCCTCGGCACCCTGACGCAGCGCAGGACCCGCCCCGCGCGTGACGCCAGCGTC
AGGCCAGCCCCGGCATGCTCTGCGGCCGCCCGCGGTCCAGCTCCGACAACAGGAATTTTCTCCGAGAGCGGGCCG
GGCTCAGTTCAGCTGCTGTCCAGACCCGGATCGGCAACAGTGCCGCCTCCAGACGTTCTCCTGCCGCTCGCCCGC
CCGTCCCAGCGCCCCCAGCCCTCCCGCGAGGGCGCCCCGGGACGGAAGGATCCACCAGTCTGTCGGCGCCCGCCG
TTCTCGTGGTCGCCGTCGCCGTCGTCGTGGTGGTAGTCTCCGCCGTCGCCTGGGCCATGGCCAATTACATCCACG
TCCCTCCCGGCTCCCCGGAGGTGCCCAAGCTGAACGTCACCGTTCAGGATCAGGAGGAGCATCGCTGCCGGGAGG
GGGCCCTGAGCCTCCTGCAACACCTGCGGCCTCACTGGGACCCCCAGGAGGTGACCCTGCAGCTCTTCACAGATG
GAATCACAAATAAACTTATTGGCTGTTACGTGGGAAACACCATGGAGGATGTAGTCCTGGTGAGAATTTATGGCA
ATAAGACTGAGTTATTAGTCGATCGAGATGAGGAAGTAAAGAGTTTTCGAGTGTTGCAGGCTCATGGGTGTGCAC
CACAACTCTACTGTACCTTCAATAATGGACTATGCTATGAATTTATACAAGGAGAAGCACTGGATCCAAAGCATG
TCTGCAACCCAGCCATTTTCAGGCTAATAGCTCGTCAGCTTGCTAAAATCCATGCTATTCATGCACACAATGGCT
GGATCCCCAAATCTAATCTTTGGCTAAAGATGGGAAAGTATTTCTCTCTCATTCCCACAGGATTTGCAGATGAAG
ACATTAATAAAAGGTTCCTAAGTGATATCCCAAGCTCTCAGATTCTCCAGGAAGAGATGACTTGGATGAAGGAGA
TTCTTTCCAACCTGGGCTCACCTGTTGTGCTTTGCCATAATGACCTATTGTGTAAGAATATAATCTACAATGAGA
AACAAGGTGATGTACAGTTCATTGATTATGAATATTCTGGATACAACTACCTGGCATATGATATTGGAAATCATT
TCAATGAATTTGCAGGTGTGAGTGATGTAGACTATAGTCTGTATCCAGATAGAGAACTACAGAGTCAGTGGCTGC
GTGCTTACCTTGAAGCCTACAAAGAATTTAAGGGCTTTGGGACTGAAGTTACTGAAAAGGAGGTAGAAATACTCT
TCATTCAAGTCAATCAGTTTGCATTGGCTTCTCATTTCTTTTGGGGATTGTGGGCTTTGATTCAAGCCAAATACT
CCACTATTGAGTTTGATTTCCTTGGGTATGCAATTGTTCGTTTTAACCAGTACTTTAAAATGAAGCCTGAGGTTA
CTGCATTAAAAGTGCCTGAGTAAAGAAGAGATTTAATTATTCTCCAGTAGCTGAGCAATGCTTGTGAATCTTTTC
TTAAGAAATCCCAAAAAGCCAATATTAGTTAAAATTCTGTTGTTTAATTTGGTTATCTTGCTTTATAAATTATGC
CTCTAAACAATCAAATCTATTTTTGAAATAGACTGAATGATGTCAAGAAATATACCTACTGCTATCCGTATGTGG
TGGATTAGAAATGTGTTAAATCTGCAAAAGGTATAAAGATGTCAGTTTAATTTCTTTGATAATTTAACCTATGTT
GTATGTGAATTATTTATTATAAACTTAGCACGATTCTGTGACTGTTTTTCTCTGTTTCACGTTCGTTGAGTGTAA
GCAATGAAAATGTCCCAAATAAGTTTTTTAAGTTTTACTTTAATAAGATTAATTTCAGTAAACATTCTAGTTGTT
CAGTGTAACCTTTTTATCTTGATGCATTGTAAGTAAAATGAATCATTTACTCTTGAAATGCCAGTCATTGACTGA
TGTAGATAATTTAGGATTTTCATATAAAAATAGCTGTTTAGGAAGGTGAAATACATTCACTGTCTCTGTTGGTGG
TACATCTTGTTGAATTCAATATTAGAAAGTATTTCTTTTTGGGGTAATATAACTTAGAATTAAATCCCTGTTTCT
CTATGTAGTCTGGCAGTATAAATATAAATATTTACCATATAATCTTGGAATAAGTATTAGTTAATGTTACCAAAA
TCTGTATTAAATAATGTTTTCAAATGCTAAAAAAAAAAAAAAAAAA
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2486/2825
FIGURE 2205

MLCGRPRSSSDNRNFLRERAGLSSAAVQTRIGNSAASRRSPAARPPVPAPPALPRGRPGTEGSTSLSAPAVLVVA
VAVVVVVVSAVAWAMANYIHVPPGSPEVPKLNVTVQDQEEHRCREGALSLLQHLRPHWDPQEVTLQLFTDGITNK
LIGCYVGNTMEDVVLVRIYGNKTELLVDRDEEVKSFRVLQAHGCAPQLYCTFNNGLCYEFIQGEALDPKHVCNPA
IFRLIARQLAKIHAIHAHNGWIPKSNLWLKMGKYFSLIPTGFADEDINKRFLSDIPSSQILQEEMTWMKEILSNL
GSPVVLCHNDLLCKNIIYNEKQGDVQFIDYEYSGYNYLAYDIGNHFNEFAGVSDVDYSLYPDRELQSQWLRAYLE
AYKEFKGFGTEVTEKEVEILFIQVNQFALASHFFWGLWALIQAKYSTIEFDFLGYAIVRFNQYFKMKPEVTALKV
PE

FIGURE 2206A

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CGAAATGAGAGCAAAAAGGGAGAGAGCAGGAAAGCGAGCACAGGCGAGTACAGTATACAAAGTGTTTTGAGTTTC
TGACTGGCGTGCCGGAAAGATCATGTTAGCACACCCAGAAACTCCACACGATGCAGACCCCAGAGGTACCAGCAG
AAAGGTCCCCTCGTAGACGGAGTATCTCAGGGACCAGTACATCAGAGAAACCCAACTCCATGGACACTGCAAATA
CCTCACCCTTCAAAGTACCAGGATTCTTCAGCAAGCGCCTGAAAGGCTCCATCAAGAGGACCAAAAGCCAGTCAA
AGCTTGACAGAAACACGAGCTTTCGGCTTCCATCCCTTCGCAGTACAGATGACAGGTCTCGTGGGCTGCCTAAAC
TAAAAGAGTCACGTTCCCATGAATCCTTGCTGAGCCCATGCAGCACAGTGGAATGTCTGGATCTTGGTAGAGGGG
AACCTGTATCAGTGAAACCACTTCATAGTAGCATCCTTGGACAAGACTTCTGCTTTGAGGTTACCTACTTAAGTG
GAAGTAAATGCTTCAGCTGTAATTCTGCTTCTGAGAGAGACAAGTGGATGGAAAACCTTCGCAGGACAGTTCAAC
CTAATAAGGACAATTGCAGGCGAGCTGAAAATGTTCTTCGTTATGGATCATTGAAGCCAAGGACCTTGCCCCTA
AAAAGAAATATTTCTGCGAACTGTGCCTTGATGATACCCTCTTTGCTCGTACAACCAGCAAGACCAAAGCAGACA
ATATTTTCTGGGGCGAACATTTTGAATTCTTCAGCCTTCCACCTCTTCATAGTATCACAGTTCACATTTACAAGG
ATGTGGAAAAAAGAAAAAAAGGACAAGAATAATTATGTAGGGCTAGTCAACATCCCCACTGCCAGTGTGACTG
GTCGCCAATTTGTAGAAAAGTGGTATCCAGTGAGTACACCTACACCCAACAAAGGAAAGACAGGAGGACCTTCTA
TTCGGATTAAATCACGTTTCCAAACTATCACCATTCTGCCTATGGAGCAATACAAAGAATTTGCAGAATTTGTCA
CCAGCAACTACACCATGCTGTGTTCTGTCCTTGAGCCAGTAATTAGTGTGAGAAATAAAGAGGAGTTGGCTTGTG
CCTTAGTGCACATTCTTCAAAGTACTGGCAGAGCCAAGGATTTTCTGACTGACTTGGTGATGTCTGAGGTGGATC
GTTGTGGAGAGCATGATGTCTTGATCTTCAGAGAGAACACTATTGCCACCAAATCCATTGAGGAATACCTCAAGT
TGGTGGGACAACAGTATCTTCATGACGCACTGGGGGAGTTTATCAAAGCTTTGTATGAGTCCGATGAGAACTGTG
AAGTGGATCCCAGCAAATGTTCATCTAGTGAACTGATAGACCATCAGAGCAACCTGAAAATGTGCTGTGAGCTGG
CTTTCTGCAAGATCATCAACTCTTACTGTGTTTTCCCTCGTGAGTTGAAAGAAGTGTTTGCATCATGGAAGCAGC
AGTGCCTGAACCGTGGCAAGCAAGACATCAGCGAGAGGCTCATCAGTGCCTCATTATTTCTCCGTTTTCTGTGTC
CAGCCATTATGTCTCCCAGTCTTTTCAACCTTATGCAGGAGTATCCTGATGACCGCACATCTCGGACTCTAACTC
TTATTGCCAAGGTCATTCAGAACCTGGCCAACTTTGCCAAGTTTGGTAACAAAGAGGAATACATGGCATTCATGA
ATGATTTTTTAGAACATGAATGGGGTGGAATGAAGCGCTTTCTTTTGGAGATCTCTAATCCAGACACCATCTCAA
ACACCCCAGGCTTTGATGGTTACATTGATCTGGGCCGAGAGCTTTCAGTTTTGCATTCCTTACTGTGGGAAGTAG
TTTCCCAACTTGATAAGGGTGAAAATTCCTTCCTACAGGCGACCGTGGCAAAATTGGGGCCTCTCCCTCGTGTTC
TTGCTGATATTACCAAGTCATTGACTAATCCTACGCCAATACAACAGCAACTGAGACGCTTCACTGAACATAACT
CCAGTCCAAATGTCAGTGGAAGCCTCTCCTCTGGGCTGCAGAAAATATTTGAAGACCCCACTGACAGTGATTTGC
ATAAACTAAAATCTCCAAGCCAGGACAACACAGACAGCTACTTCAGAGGGAAAACATTATTGCTGGTTCAGCAAG
CCTCCTCTCAGAGCATGACTTATTCTGAAAAGGATGAAAGGGAAAGTAGCCTTCCTAATGGTCGGAGCGTCTCCC
TCATGGACCTCCAGGACACTCATGCTGCTCAAGTGGAGCATGCATCTGTCATGCTTGATGTGCCTATACGCTTGA
CCGGAAGCCAGCTTTCCATAACCCAGGTGGCCAGCATCAAACAGCTGCGGGAAACCCAGAGCACTCCCCAAAGTG
CACCCCAAGTGAGAAGGCCCCTGCACCCAGCCTTGAACCAGCCAGGTGGCCTTCAGCCCTTGTCGTTCCAGAACC
CTGTCTATCACCTCAATAACCCAATTCCAGCAATGCCAAAGGCCTCTATAGATTCCAGTTTGGAGAACCTAAGCA
CTGCCAGTTCCAGAAGCCAAAGTAACAGTGAAGACTTCAAGCTCAGTGGACCCAGCAATAGCAGCATGGAAGATT
TCACTAAACGTAGCACTCAGAGTGAGGACTTCTCCAGGCGGCACACGGTGCCAGATAGACACATACCTCTTGCTT
TGCCACGACAAAATAGTACTGGGCAGGCCCAGATCCGAAAAGTGGACCAGGGTGGGTTAGGTGCCCGAGCCAAAG
CCCCACCATCCCTGCCACACAGTGCTTCTTTACGTAGCACCGGGAGCATGTCAGTGGTGTCCGCAGCCCTGGTGG
CCGAACCTGTGCAGAATGGGAGCCGGTCCCGGCAGCAGTCCTCTTCCTCCAGAGAGAGCCCTGTTCCCAAAGTTA
GAGCAATCCAGAGACAACAGACACAGCAGGTTCAGTCACCTGTGGACTCTGCCACAATGTCCCCAGTAGAGAGGA
CAGCAGCCTGGGTTCTGAACAATGGGCAGTATGAAGAGGATGTGGAAGAAACTGAGCAAAATCTAGATGAAGCCA
AGCATGCTGAGAAGTATGAACAAGAAATTACTAAACTGAAGGAGCGCCTGAGAGTTTCCAGCCGGCGACTGGAGG
AATATGAACGCCGCTTGCTGGTGCAGGAGCAGCAGATGCAGAAGCTGCTGCTGGAATACAAGGCCCGACTGGAGG
ACAGCGAGGAGCGGCTCCGAAGACAGCAGGAAGAAAAAGATAGCCAGATGAAAAGCATCATCAGCAGGCTAATGG
CTGTGGAAGAGGAACTGAAGAAGGATCATGCTGAGATGCAAGCAGTTATTGATGCAAAGCAGAAAATAATTGATG
CACAGGAAAAACGGATCGTGTCCCTGGATTCAGCCAACACCAGACTGATGAGCGCGCTGACCCAAGTGAAGGAGC
GGTACAGCATGCAGGTCCGCAATGGCATCTCCCCCACCAACCCCACCAAGCTTTCCATCACGGAGAATGGTGAAT
TCAAAAACAGCAGCTGCTGACGGGCTTTGTCTGTGGAAGGAGACAGAAGGAAATTGACCCACTCTCCTATCTCCA
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FIGURE 2206B

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GACCTTTACCTAGCCCCTCCAGGTTTACAGAATGTTGCTACTTCACAATGGCGATGTGGTGAGAAACTCCTGAAT
GAAGAAAGGAACCTTGTCTTTCAGGGCATAAGGCGGCGACTTCCAAGGTCAATGCTTTTCCCCCACATCTCTATG
TACATAGGGAACTTAGTTCTGGGCCATGTACAGAAAATATCACTGTAATATACCAAAAGGAAGTTAATAATGTAG
ATTACCTTTTTGATTATTGCTATTTTTATTATTGTTTTCCTCTTGTTGAAAGCACTGCAGTTGTTACAGGAAGTA
AAGTAGGAATGTTGTGTGAGCGAGACATGAGCCTGTAGTTCAGTAGGTAGAGACCAAGCATCTATCTGATAGAAC
ACATGGAGTGCAATAGGACATTGTGAGAAGGATTTTTCAGGGATTCATCTACTAGTTTAAAAACCCCACTCTGGC
CCTCTTGTCCTTTCAGAAAACATGCAAATACCAAGATCCATACAAAACAATAATTTATTCCACTGATCAACCAAG
ACTGGTTCTGGTTGGACAGCTAATCTGATTTGGGGATTCACTGTTTCAGAGGACACAGACAAAAGCTGTTGCATC
AAAACTGGACTTTAGGAGTAATTTCTATTGAACTCCTGTCAATATGTTTATTTCCTCTGTCTACAGCAGATGGGA
GTCTTCTCTTTTAGACAGGGGCTTTTTGTTTTTAACCCCAATTGTAATAAAGGGTGTTCTTTTTCCTCTTTAGAA
AAAAAAAAAAAAAAAAAA
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FIGURE 2207

MQTPEVPAERSPRRRSISGTSTSEKPNSMDTANTSPFKVPGFFSKRLKGSIKRTKSQSKLDRNTSFRLPSLRSTD
DRSRGLPKLKESRSHESLLSPCSTVECLDLGRGEPVSVKPLHSSILGQDFCFEVTYLSGSKCFSCNSASERDKWM
ENLRRTVQPNKDNCRRAENVLRLWIIEAKDLAPKKKYFCELCLDDTLFARTTSKTKADNIFWGEHFEFFSLPPLH
SITVHIYKDVEKKKKKDKNNYVGLVNIPTASVTGRQFVEKWYPVSTPTPNKGKTGGPSIRIKSRFQTITILPMEQ
YKEFAEFVTSNYTMLCSVLEPVISVRNKEELACALVHILQSTGRAKDFLTDLVMSEVDRCGEHDVLIFRENTIAT
KSIEEYLKLVGQQYLHDALGEFIKALYESDENCEVDPSKCSSSELIDHQSNLKMCCELAFCKIINSYCVFPRELK
EVFASWKQQCLNRGKQDISERLISASLFLRFLCPAIMSPSLFNLMQEYPDDRTSRTLTLIAKVIQNLANFAKFGN
KEEYMAFMNDFLEHEWGGMKRFLLEISNPDTISNTPGFDGYIDLGRELSVLHSLLWEVVSQLDKGENSFLQATVA
KLGPLPRVLADITKSLTNPTPIQQQLRRFTEHNSSPNVSGSLSSGLQKIFEDPTDSDLHKLKSPSQDNTDSYFRG
KTLLLVQQASSQSMTYSEKDERESSLPNGRSVSLMDLQDTHAAQVEHASVMLDVPIRLTGSQLSITQVASIKQLR
ETQSTPQSAPQVRRPLHPALNQPGGLQPLSFQNPVYHLNNPIPAMPKASIDSSLENLSTASSRSQSNSEDFKLSG
PSNSSMEDFTKRSTQSEDFSRRHTVPDRHIPLALPRQNSTGQAQIRKVDQGGLGARAKAPPSLPHSASLRSTGSM
SVVSAALVAEPVQNGSRSRQQSSSSRESPVPKVRAIQRQQTQQVQSPVDSATMSPVERTAAWVLNNGQYEEDVEE
TEQNLDEAKHAEKYEQEITKLKERLRVSSRRLEEYERRLLVQEQQMQKLLLEYKARLEDSEERLRRQQEEKDSQM
KSIISRLMAVEEELKKDHAEMQAVIDAKQKIIDAQEKRIVSLDSANTRLMSALTQVKERYSMQVRNGISPTNPTK
LSITENGEFKNSSC

FIGURE 2208

AGACCCGACGCCCGGGGTCCTCGAAGACGCGTCCGCCGCCGTGCCCGTCGCC**ATG**AACCGCTTCAGGGTGTCCAA
GTTCCGGCACACCGAGGCTCGGCCGCCCCGCCGCGAGTCCTGGATCAGTGACATTCGAGCAGGAACCGCCCCTTC
ATGCAGGAACCACATCAAATCAAGCTGCAGCTTGATCGCCTTCAACTCCGACCGTCCTGGTGTACTGGGCATTGT
GCCTCTGCAAGGCCAAGGAGAGGACAAGCGACGCGTGGCCCACCTGGGCTGCCATTCAGACCTAGTCACCGACTT
GGACTTCTCGCCCTTTGATGACTTCCTCCTGGCCACAGGCTCGGCTGACAGGACGGTAAAACTCTGGCGACTGCC
AGGGCCTGGCCAGGCCCTGCCCTCAGCACCCGGGGTGGTGCTGGGCCCCGAGGACCTCCCAGTGGAGGTACTGCA
GTTCCACCCCACCTCTGACGGCATTCTGGTGAGCGCAGCAGGCACCACTGTGAAGGTCTGGGACGCAGCCAAGCA
GCAGCCCCTGACAGAGCTGGCAGCCCATGGGGACCTGGTGCAGAGCGCCGTCTGGAGCCGAGATGGAGCCCTGGT
GGGCACGGCGTGCAAGGACAAGCAGCTGCGGATCTTTGACCCCAGAACAAAGCCGCGGGCCTCTCAGAGCACGCA
GGCCCATGAGAACAGCAGGGATAGCCGGCTGGCATGGATGGGCACCTGGGAGCACCTTGTGTCTACTGGATTCAA
CCAGATGCGTGAGCGCGAAGTGAAGCTGTGGGACACGCGGTTCTTCTCCAGCGCCCTGGCCTCCCTCACCTTGGA
CACCTCGCTTGGGTGTCTCGTGCCTCTGCTGGACCCTGACTCTGGGCTCCTGGTCCTGGCAGGAAAGGGCGAGAG
GCAGCTGTACTGTTACGAGGTGGTCCCGCAGCAGCCGGCGCTGAGCCCAGTGACCCAGTGTGTCCTGGAGAGCGT
GCTGCGTGGGGCTGCCCTTGTGCCCCGGCAGGCGCTGGCCGTCATGGGCTGCGAGGTACTCCGCGTCCTACAGCT
GAGCGACACAGCCATCGTGCCCATCGGCTACCATGTGCCCCGCAAGGCTGTGGAGTTCCACGAGGACCTGTTCCC
GGACACTGCCGGCTGTGTGCCTGCCACCGACCCCCATGGCTGGTGGGCTGGGGACAACCAGCAGGTGCAGAAGGT
CAGCCTCAACCCCGCCTGCCGGCCCCACCCGAGCTTCACTTCCTGTCTGGTGCCCCCTGCGGAGCCCCTCCCTGA
CACAGCCCAGCCTGCGGTGATGGAGACACCCGTGGGTGATGCAGACGCAAGCGAGGGTTTCTCTTCCCCTCCCAG
TTCGCTGACCTCGCCCTCCACGCCCTCCAGCCTGGGGCCCTCACTCTCCAGCACCAGTGGCATCGGGACCAGCCC
CAGTTTGAGGTCGCTGCAGAGCCTGCTGGGCCCCAGTTCCAAGTTCCGCCATGCTCAGGGCACTGTCCTGCACCG
AGACAGCCACATCACCAACCTCAAGGGGCTCAACCTCACCACACCTGGTGAGAGTGACGGCTTCTGTGCCAACAA
GCTGCGTGTGGCCGTGCCGCTGCTCAGCAGCGGGGGACAGGTGGCTGTGCTTGAGCTACGGAAGCCTGGCCGCCT
GCCCGACACGGCACTGCCCACGCTGCAGAATGGGGCAGCTGTGACTGATCTGGCCTGGGACCCCTTTGACCCCCA
TCGCCTCGCTGTGGCTGGTGAGGACGCCAGGATCCGACTGTGGCGGGTACCCGCAGAGGGCCTGGAAGAGGTGCT
CACCACGCCAGAGACTGTGCTCACAGGCCACACGGAGAAGATCTGCTCCCTGCGCTTCCACCCACTGGCAGCCAA
TGTGCTGGCCTCGTCCTCCTATGACCTCACTGTTCGCATCTGGGACCTTCAGGCTGGAGCTGATCGGCTGAAGCT
GCAGGGCCACCAAGACCAGATCTTCAGCCTGGCCTGGAGTCCTGATGGGCAGCAGCTGGCCACTGTCTGCAAGGA
TGGGCGTGTGCGGGTCTACAGGCCCCGGAGTGGCCCTGAGCCCCTGCAGGAAGGCCCAGGGCCCAAGGGAGGACG
CGGAGCTCGCATTGTCTGGGTATGTGATGGTCGCTGTCTGCTGGTGTCTGGCTTTGACAGCCAAAGTGAGCGCCA
GCTGCTCCTATATGAAGCTGAGGCCCTGGCCGGCGGACCCTTGGCAGTGTTGGGCCTGGACGTGGCTCCCTCAAC
CCTGCTGCCCAGCTACGACCCAGACACTGGCCTGGTGCTCCTGACCGGCAAGGGCGACACCGTGTATTCCTGTA
CGAGCTGCTCCCCGAGTCCCCTTTCTTCCTGGAGTGCAACAGCTTCACGTCGCCTGACCCCCACAAGGGCCTCGT
CCTCCTGCCTAAGACGGAGTGCGACGTGCGGGAAGTGGAGCTGATGCGGTGCCTGCGGCTGCGTCAGTCCTCCCT
GGAGCCTGTGGCCTTCCGGCTGCCCCGAGTCCGGAAAGAGTTCTTCCAGGATGACGTGTTCCCAGACACGGCTGT
GATCTGGGAGCCTGTGCTCAGTGCCGAGGCCTGGCTGCAAGGCACTAATGGGCAGCCCTGGCTTCTCAGCCTGCA
GCCTCCTGACATGAGCCCAGTGAGCCAAGCCCCCCGAGAGGCCCCTGCTCGTCGGGCCCCATCCTCAGCGCAGTA
CCTGGAAGAAAAGTCTGACCAGCAAAAGAAGGAGGAGCTGCTGAATGCCATGGTGGCAAAACTGGGGAACCGGGA
GGACCCACTCCCCCAGGACTCCTTTGAAGGCGTGGACGAGGACGAGTGGGAC**TAG**CCTGCGCCCCGTCACCTCC
ACCTCACCTGTGCTGCCACTTCCTAGTGCACACCTCACGGCTCATCCTCAAGCTGGAAGATACCTCTCTGGCCCC
GGCACATGTCACCCCTGCACTCCTGCCTTCCCGTGGGCACTTCCACATCCTCTGGGCCTCTGGCAGTTCCCAGGG
ACTGTTTTCACCTCTGCTGTCTCTGGGGTCAGCTGCTGCTCATCAGCTGCCCGCTAGCATGTGGCCAGGGGTGCA
GGGTGGCGGGGGGTCAGCAGCATGTCCCTGGGCAGGCCCTGGGCACCCTGTCTCCCCTGGTCTCACTGCTGACCT
GGGCTGGTCCCAGCCTGGATTGGCCTCATCCAGGATCTTTGGTCACCCCACGCTGCCCCATCTTGCCTGCTGTTC
CAGTTCTGGTCAAGGGCCTTGGGGGCTGGCCCCCCACCAGGCCTTCTAGAGCAGCACCAGTCTCAGGGCCCTGGG
ACCAGCTGCCCTACTTCCCAGGTTTGTAGCCAGGAGAAGGGGGCATCACAGAGCTGATGGTCCAATAAGGGGGGT
GTGAGCCCCGCAGGGACTGGCCCGCACCTGCCTTGGATGTTTTCAGCAATTAAACTTTTTTAAGCTGGCAAAAA
AAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2209

MNRFRVSKFRHTEARPPRRESWISDIRAGTAPSCRNHIKSSCSLIAFNSDRPGVLGIVPLQGQGEDKRRVAHLGC
HSDLVTDLDFSPFDDFLLATGSADRTVKLWRLPGPGQALPSAPGVVLGPEDLPVEVLQFHPTSDGILVSAAGTTV
KVWDAAKQQPLTELAAHGDLVQSAVWSRDGALVGTACKDKQLRIFDPRTKPRASQSTQAHENSRDSRLAWMGTWE
HLVSTGFNQMREREVKLWDTRFFSSALASLTLDTSLGCLVPLLDPDSGLLVLAGKGERQLYCYEVVPQQPALSPV
TQCVLESVLRGAALVPRQALAVMGCEVLRVLQLSDTAIVPIGYHVPRKAVEFHEDLFPDTAGCVPATDPHGWWAG
DNQQVQKVSLNPACRPHPSFTSCLVPPAEPLPDTAQPAVMETPVGDADASEGFSSPPSSLTSPSTPSSLGPSLSS
TSGIGTSPSLRSLQSLLGPSSKFRHAQGTVLHRDSHITNLKGLNLTTPGESDGFCANKLRVAVPLLSSGGQVAVL
ELRKPGRLPDTALPTLQNGAAVTDLAWDPFDPHRLAVAGEDARIRLWRVPAEGLEEVLTTPETVLTGHTEKICSL
RFHPLAANVLASSSYDLTVRIWDLQAGADRLKLQGHQDQIFSLAWSPDGQQLATVCKDGRVRVYRPRSGPEPLQE
GPGPKGGRGARIVWVCDGRCLLVSGFDSQSERQLLLYEAEALAGGPLAVLGLDVAPSTLLPSYDPDTGLVLLTGK
GDTRVFLYELLPESPFFLECNSFTSPDPHKGLVLLPKTECDVREVELMRCLRLRQSSLEPVAFRLPRVRKEFFQD
DVFPDTAVIWEPVLSAEAWLQGTNGQPWLLSLQPPDMSPVSQAPREAPARRAPSSAQYLEEKSDQQKKEELLNAM
VAKLGNREDPLPQDSFEGVDEDEWD

FIGURE 2210

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CAGTGCTGCGGGCTCCGGGCAATGGATGCCCCCGGGGCCCTGGCCCAGACCGCCGCCCCCGGTCCGGGCAGGAAG
GAGCTGAAGATCGTGATCGTGGGCGACGGCGGCTGCGGCAAGACCTCGCTGCTCATGGTGTACAGCCAGGGCTCC
TTCCCCGAGCACTACGCCCCATCGGTGTTCGAGAAGTACACGGCCAGCGTGACCGTTGGCAGCAAGGAGGTGACC
CTGAACCTCTACGACACGGCCGGGCAAGAAGACTATGACCGGCTGCGGCCCCTGTCCTACCAGAACACCCACCTC
GTGCTCATCTGCTATGACGTCATGAATCCCACCAGCTACGACAACGTCCTCATCAAGTGGTTCCCTGAGGTCACG
CATTTCTGCCGCGGGATCCCCATGGTGCTCATCGGCTGCAAGACAGACCTGAGGAAGGACAAGGAGCAGCCGCGG
AAGCTCCGGGCCGCCCAGCTGGAGCCCATCACCTACATGCAGGGCCTGAGCGCCTGCGAACAGATCCGAGCTGCT
CTCTACCTGGAATGTTCCGCCAAGTTTCGGGAGAATGTGGAGGACGTCTTCCGGGAGGCCGCCAAGGTGGCTCTC
AGCGCTCTGAAGAAGGCGCAACGGCAGAAGAAGCGCCGGCCCTGCCTGCTGCTCTGACCCAGGGCAGACAGACCT
CACGACAGCACTGACAGGGCCCGGGGGCCCAGGTGCCGATTGCACCAGGGAGGCTGCCCCATCCCGACCCTCCAG
CTCATGGTGTCTGGGGCCTGCGGCTAGACTCTTGGAACATTCTGGAACTCTCTCCTTTCCTGGCTGGGGCTCTGA
CCACAAACTCCCCTCCAGGCTGCCCCTGGGACATGGTGGTGATGTGGGTGCAGGAGCCAGTGTCTGTTGTCGGGA
CTCGCAAGTGCCCTCATCACAGCCACCCCCACCACGAGTGTCTCCCCAGTGCAGACTCAAGTTATGCTTGAAATG
AAAAAGTCTATCTGGTAGTGGGTAAACGTAGACCTGGCACTGTTCCACGCGGGCGCCCCAAGCCTGCCACTCCTG
TGTCCCTGCCTCCCTGGGCTCCCGAGATAGGCACCACTGTATCCTCCAGCTCCTTCCTTCCTTCCCCCAGGAACA
CGGAGGCCACCGAGGGGGCTGGGCCTATCAGGAGGACACAGGCTGCAGCCTGGCACCCACCCCTCCCATCTCCAC
CCCACATGGAAGACTTGTCTTCAACTTGGCCACTGTCTTTGCAGAGCTGGGCACATGTGCCCAGGGGGCAGAAAA
AATGGCTTCTCAGTTGTTAAAAGTATACCCTGGACCACCCATCTGACCATCTCCTTAAGGTTTCACCCAAAGCCC
CCAGTGTCAGAGACTTGGGATGGGAAGAACAGTCGGCTCCCAGTGTGGTCATGAGCAAGTTTTCTGTGGACTGTT
CCCCCCACTGCGGCAGGACAGGACTGGCCCACTTAGTCCTCAAGCTCCCAACCTGCTGTCCCTCAAGCCCCGCTT
CTACCAGCCTGTGGAGTTCAGGAGGCGAGACATCCTGGCCTCCTTTGAGAACTGATGGGATCTACCCCCTGTCCA
CGCGGGACAGTTTCTCAGAACTGGTTCATAGACCACCTGTGTCACCAACAGCCAGATACCTAATCCCTGAGCCTC
CTTTGGGAAGGTCTGGGGCCGAGGGTCTGGGAATTTTTTTTTTTTTTTTTTTTTGGGACAGAGTCTCATTCTG
TCACTCAGGCTAGAGTGCAGTGGCATGATCTTGGCTCACTGCAAGCTCCACCTCCTGGGTTCAAGCGATTCTCTT
GCCTCAGCCTCCTGAGTAGCTGGGACTACATGCGCACACCACCACGTCCGGCTAATTTTTGTATTTTTAGTAGAG
ACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCGTGATCCACCCGCCTTAGCCTCCCAAAG
TGCTGGGATTACAGGCGTGAGCCACCGTGCCCGGCCCAGGACTTTTAAAACAAGCATCCCAGGGGATTCCGGTGC
CCACCAGAAGTCGCAAGCTGCTTGGCTCTGGAGGGCGCCTAGGAGTCGGTGTCGCCTAAGATGGGATAATGGCTT
CAGGCAACTCCCAGCCTTCCCCATATCTCCTGCCTCAGCCCCCCTGGCCCAGTGCTGGGGCGTCAGCTAAACCTG
AGCTTCCAAGAAGTCAGGTTGCCAAAGGAAGAAGCCTTCTGAGACCCTCCCCAACCCACCCAGGTTCCCAAGGCC
CTGCCGTACCCTGGGGAATCAACCAAGGAGTTCTTGTTCTCGAAGAACCCCAGGCCTCATGATGGTCTACGGTAG
AGGTCCAACAACTACAGCCTGTGGGCCACATCTGGCCACAGCCTGATTTGTAAATAAAGTTTTATTGGAACACAA
AAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2211

MDAPGALAQTAAPGPGRKELKIVIVGDGGCGKTSLLMVYSQGSFPEHYAPSVFEKYTASVTVGSKEVTLNLYDTA
GQEDYDRLRPLSYQNTHLVLICYDVMNPTSYDNVLIKWFPEVTHFCRGIPMVLIGCKTDLRKDKEQPRKLRAAQL
EPITYMQGLSACEQIRAALYLECSAKFRENVEDVFREAAKVALSALKKAQRQKKRRPCLLL

FIGURE 2212

GTGAGCGCATGTGCGCATTTATGAGCATCTACTTGCGGCTGCACTCAGGGCCATTTGAACCCAGTGCAGAGTTAT
CTCTATGAGGAGGCCCCGGGTCTCCAGCCCCCTCCATCTCCCCTGGGGTTTGGCATATTTGACATGGAGCCCCAT
GCCAAGGGATGCAGCTGTTGGTGTCTGTCCAGTCCATTCAAGGCTAGCCTGCCCATGCACTGTGGCAGGGGTTGG
ATTGGAGGGAGAGAACAGAGTTGGGAAAAACAACAGGTTTGAGTCCTATAAAGCCATAATTTAACTCCAGTAGCT
GATGTCAGACAAGCTTGTCCT**ATG**TCCTATTTGAGTGGCAGCAGCGCCAGCCCAGCAAGAAGGCTGGGGGTTGTC
AAGGTTGTCCCCAGACCTTGCTTGCAGTGGTTGGAGAACCCAGGGGGCTGCCTTGGGCCCTCTGGCCAGAGGGAA
GCGGGCAGCTCTAGCCCTGGAGATTGTGGTCACATTGGGGCTTGTTTAGGATTGGAGGGCCAGGTCACCTCCCCA
GCCACCCTCCCTTCTCTCCTCTGGGGTCCCCACTTTAGGGCGACTTTGCCCGAGGCCCACGCATCCATCCACTCC
TTTAGTGCCTTGAATCTCATTCACAAGCAGCCCCCTCCCTTCCCCTTCCCTTCTCACTCTGTTGATGTAATCCTC
CCACCCCCAGTGTCCATCCTAAGACAGGCATCAAAAGAGGCCCTAACTTTACTTCCCAAATGGTGCTTTTTAAAA
AACACCATCACTACATTAGGGGCAATTTTTTCACACCTCCCTGTCTTCAGAATG**TAA**AGGGTGGGGATTATGTCT
CTGTTAATATGCAGCCCCCTGCACTGTGGGGTTTGGGGCATGTTCAGTAATAAGAATGAATACAATAGACAAAG
GGGGTGTGATGAGTGTTAACTTGGTTGTTCCAGAGGTAAACCAGGTCTCAGGGAAGAGCCTGGAGCTGCTATTGC
TTAGGAAGTTGTACGTGCCTTGAAATGTCCACTACCTGAGGACGCAGCATCTGGTGGGCCCGGGGCTGCTGGGGC
CAAGGAGGGACCTTGACCTTCTGGTGCCTGCCCCTCCCCGGCCTACGTGCCATCCGCGTGACGCTAGGTCAGCGC
TGCCGGTTCTTTACCAAATGTGCTTGCTTCTCCTAAGTTATTTATAAAGAGAAATCACTAATGGACTCTACTGGT
TTGAGTGCTTCTGAGCTGGATGACCGACCGCCTGTATGTTTGTGTAATTAATTGCCATAATAAACTTTGATGAGT
CAAAAAAAAAAAAAAA

FIGURE 2213

MSYLSGSSASPARRLGVVKVVPRPCLQWLENPGGCLGPSGQREAGSSSPGDCGHIGACLGLEGQVTSPATLPSLL
WGPHFRATLPEAHASIHSFSALNLIHKQPPPFPFPSHSVDVILPPPVSILRQASKEALTLLPKWCFLKNTITTLG
AIFSHLPVFRM

FIGURE 2214

CGGGACGCGG**ATG**CAGACGCAGGCGGAGGCGCTGACGGCGGGGATGGCCGGGGTGGCCACAGCTGCCGCGGGGGC
GTGGACACAGCCGCAGCTCCGGCCGGTGGAGCTCCCCAGCGCACGCGCCAGGTCCGGGCAGAGACGCCGCGTCT
GCCGCAGGGGGTCACGAATGCGGCCGCACATATTCACCCTCAGCGTGCCTTTCCCGACCCCCTTGGAGGCGGAAA
TCGCCCATGGGTCCCTGGCACCAGATGCCGAGCCCCACCAAAGGGTGGTTGGGAAGGATCTCACAGTGAGTGGCA
GGATCCTGGTCGTCCGCTGGAAAGC**TGA**AGACTGTCGCCTGCTCCGAATTTCCGTCATCAACTTTCTTGACCAGC
TTTCCCTGGTGGTGCGGACCATGCAGCGCTTTGGGCCCCCCGTTTCCCGCTAAGCCTGGCCTGGGCAAATGGAGC
GAGGTCCCACTTTGCGTCTCCTTGTAGGCAGTGCGTCCATCCTTCCCTAGGGCAGGAATTCCCACAGTTGCTACT
TTCCTGGGAGGGCCTCATGTTTTATCTGGTTCTTAAATGTTTGTTACTACAGAAAATAAAACTGAGGTATTATT

FIGURE 2215

MQTQAEALTAGMAGVATAAAGAWTQPQLRPVELPQRTRQVRAETPRLPQGVTNAAAHIHPQRAFPDPLGGGNRPW
VPGTRCRAPPKGGWEGSHSEWQDPGRPLES

2498/2825
FIGURE 2216

GAATGGAATGAAAAGCCTTGTACAAGAGGCTTCGTGCC**ATG**TTCAGCCTGCCCCCTTAGCCTTCCACTGTGTGAGG
ACACAGCATTCCTTCCTTCCAAGTGCTGCAGCTCTCACAAGACAATCAAACAAGCCCGCACCTTGATCATGATCT
TCCTAGCCTCCGGAACGCACTTTCAGACCATGCTGAAGTCTAAATTGAATGTCTTAACACTGAAAAAGGAACCTC
TCCCAGCGGTCATCTTCCATGAGCCGGAGGCCATTGAGCTGTGCACGACCACACCGCTGATGAAGACAAGGACTC
ACAGTGGCTGCAAGCACTTTCAGACCATGCTGAAGTCTAAATTGAATGTCTTAACACTGAAAAAGGAACCTCTCC
CAGCGGTCATCTTCCATGAGCCGGAGGCCATTGAGCTGTGCACGACCACACCGCTGATGAAGACAAGGACTCACA
GTGGCTGCAAGGTTACCTACCTGGGCAAAGTCTCCACCACTGGCATGCAGTTTTTGTCAGGCTGCACAGAAAAGC
CAGTCATTGAGCTCTGGAAGAAGCACACGCTAGCCCGAGAGGATGTCTTTCCGGCCAATGCCCTCCTGGAAATCC
GGCCATTCCAAGTTTGGCTCCATCATCTCGACCACAAAGGGGAGGCCACAGTGCACATGGATACCTTCCAGGTGG
CCCGCATCGCCTACTGCACCGCCGACCACAACGTGAGCCCCAACATCTTCGCCTGGGTCTACAGGGAGATCAATG
ATGACCTGTCCTACCAGATGGACTGCCACGCCGTGGAGTGCGAGAGCAAGCTCGAGGCCAAGAAACTGGCCCACG
CCATGATGGAGGCCTTCAGGAAGACTTTCCACAGTATGAAGAGCGACGGGCGGATCCACAGCAACAGCTCCTCCG
AAGAGGTTTCCCAGGAATTGGAATCCGATGATGGC**TGA**ATGAACTTGAGACGCTTCAGCAAAGGCAGCATTGGTC
ACGGAGTTCAAGGGAATAGATGAGTAAGCAACGTTTCAAATTTGGGATGAAAAGACTGCCAAACTATTGGCTGAC
CAAGGTTTTTAAATTCAGAAGAGCAATTCTAAATCTAAAGAAATGTATCATTAAAGTAATTACGTTACATTGAAA
CCTGCTGCTGCTGTGACTGTGAGGAGGGTGGGAGTGTGGATGGGGAGGAAGGTTCTAGGCTCTCTTCTTATTTTT
CTCATTTCCCAATGCCTCTCTGTGGGAGAGCTTCATGCCAGTTTTCACCACGCTCAGGCAAATACTCTGCAGCTG
TTATTGGATGGGCCATTCCGATCTGCCTTATGAAATTCCACAAGAATGTTAGGGGCACCCTCTTTCCCCTTCTAA
CATCCTTAGAGGGATGAAATCTCAGCATATGTTGCAGGACACCAAAAGGAAGAAAACAATCAAGCAAATAAAATA
AACAGTCAAACAAACCAGGAGTTTAAAACAACAACCCCAACAACAGAAGCCTTGGCAAAGAGGAATAAGTGATCA
GCAAGTGAACACACTCTATGTCAACTCTCCTTTTATCCAGCTGAGATTTATGGTAACTTATTTAATTAATGGTCC
TGTCTGATGCATCCTTGATGGCAAGCTTCAAATCTGATTTGGTATCACCGAGGAAACCTTGCCCCCATCACTCAG
CATTGCACTTAGATACAGAATGAGTTAGATAAACTTGGCTTGTCTAGAGACCCATGTCATCTTAACCTAAAGGGA
AATCTTATTGCGTTATCATAAAATTGATGATATCTTAGGGTCAGAATTGCCCTTTTTTTTATTTTGAATGGGAAG
CTCTCACTAAAACAATCCTGAGATTCTTAATTTCATGGTTCTTTAAATATTATAAACACAGAGTCAACATAGAA
TGAAATTGTATTTGTTAAAATACACACATTGGAGGACAAGAGCAGATGACTACTTTTCGAAGTAATGCTGCTCCT
TCCTAAAAGTCTGTTTTCAATCCTGGTAATATTAGGGGCACTGCGGCACCTAAGAAGCCTTAAATGAGAGCTAAT
CCAATTTAGAGAGCGATGGTGTCAGCATTTCGGTCTGCATATCTGTGTGTCCGTATCTGCGTTTGTGTGCGTGTA
CGTGTGCCCCTGTGTGTGGGCCCAGTTTTCAGGCATGTAGAATAAGCATGGAGTCATATTGAGGAGGACTCACTT
CTTGAAGATATGCTTGTTGCTTTACAACATATGTAAGCTATTCTTTAGCATAAATGCATTCATTCTTTAATAAAA
ATATGTTTGCATTAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2217

MFSLPLSLPLCEDTAFLPSKCCSSHKTIKQARTLIMIFLASGTHFQTMLKSKLNVLTLKKEPLPAVIFHEPEAIE
LCTTTPLMKTRTHSGCKHFQTMLKSKLNVLTLKKEPLPAVIFHEPEAIELCTTTPLMKTRTHSGCKVTYLGKVST
TGMQFLSGCTEKPVIELWKKHTLAREDVFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVS
PNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFRKTFHSMKSDGRIHSNSSSEEVSQELESDDG

2500/2825
FIGURE 2218

GGGGAGGTAGCCCGCAGTGCAGGGGCAGCGCGGCGCGGGGCCACCGACGGGACGCGGCTCCGGGAAC**ATG**GCTCG
CTTCGCTCTGACTGTTGTCCGGCATGGAGAAACAAGATTTAACAAGGAGAAAATAATCCAAGGACAAGGAGTAGA
TGAACCTCTTTCAGAAACTGGATTTAAACAAGCAGCAGCTGCTGGTATATTTCTGAATAATGTGAAGTTTACTCA
TGCTTTCTCCAGTGATCTCATGAGGACAAAGCAGACCATGCATGGAATTTTGGAGAGAAGCAAATTTTGCAAAGA
TATGACGGTAAAGTATGACTCAAGACTTCGGGAAAGGAAATACGGGGTTGTAGAAGGCAAAGCGCTAAGTGAGCT
GAGGGCCATGGCCAAAGCAGCCAGGGAAGAGTGCCCTGTGTTTACACCGCCCGGAGGAGAGACGCTGGACCAGGT
GAAAATGCGTGGAATAGACTTTTTTGAATTTCTTTGTCAACTAATCCTGAAAGAAGCGGATCAAAAAGAACAGTT
TTCCCAAGGATCTCCAAGCAACTGTCTGGAAACTTCTTTGGCAGAGATATTTCCTTTAGGAAAAAAATCACAGCTC
TAAAGTTAATTCAGACAGCGGTATTCCAGGATTAGCAGCCAGTGTCTTAGTTGTGAGTCACGGTGCTTACATGAG
AAGTCTGTTTGATTATTTTCTGACTGACCTTAAGTGTTCCTTACCAGCCACTCTGAGCAGATCTGAACTTATGTC
AGTCACTCCCAATACAGGGATGAGTCTCTTTATCATAAACTTTGAGGAAGGAAGAGAAGTTAAACCAACGGTTCA
GTGTATTTGTATGAACCTACAGGATCATCTAAATGGACTGACTGAAACTCGC**TAA**GGTTAAATCTGCATCAAAAT
CTAACCAATTTGAGCCTCTGAAGGGAGTGCCATTGGCTTTATTTACTTCTCTCCTCTGCTAGTCCTGATTTGGAA
ACAGTTAAAAGCCAATTTTTAGCTCCAGTGGAACCATAGCCACATAAAACTTTAATGGACAACCATATAGAATTA
ACTTATTTTGTCCAAGTACAGTTGGCATTTTCCAGAATAATTTTACCACCCTGCTAGATGTCATCTCTGGATTGC
ACATGGATGATGAAGGAACTCAGCATTGAAAGTTGGGGGATTAGTAACCTTGTTACAACGGTTTCTTTTTCATTT
TAGCCTATTTTAATGGCTATTGGTAAGATACTGTATGTTTTAGTATCTCATCCAGTGCTTAGAAGAAAGAATGG
TTTATAATTCCCAGTACATGTTTATATTGACTGTGTTATATTTTAAATCCTTTAAATAAAAAATCCTTATAAGT
TTATGTAAAGC

FIGURE 2219

MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRTKQTMHGILERSKF
CKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREECPVFTPPGGETLDQVKMRGIDFFEFLCQLILKEADQK
EQFSQGSPSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVVSHGAYMRSLFDYFLTDLKCSLPATLSRSE
LMSVTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETR

FIGURE 2220

ACGCGCCTCGGGGAACAGCCTGGCCCAAAGCCTCACTCCTCACGTCCCAGGGGTGGACGGGGGTCCGGGAGCCTC
GAGCTCCGGGCAGGCGTGGCGAGGCTGAAGTCTGGGTCTTCCGCGCCCCGCGAGGACCACGCCGCGACGTAATCG
CCCGCGGGGAGGCGCGGAGTGGAGCCGCAGCCAGCCCCTCCCGCACTCTGCTGACCGCGCACTAGCTGTCCTTGA
GGCAAGAATACTTGGGAGCGGAAAAAAGGTGGGGGTGTTCCCCGGGGCGGGGGAGGAGGGGCAAGGCCCCAGCAA
GCCTCTTGGAAATCTCTCCCTGGGAGGGGACGAGGGGCGGCCTTCAGTTGCAAATGGGAAGGGCTCGGATACCGG
ATTTGAAGCAGTGTTTGCACGGCAAGCGCAGCTTTTATTTAGACTGCCGGTTTGTGAGGGTTGGCTCTCAGAGCG
CTGATGGCGATTATAGTGGAACTTCACCTTCACCTGCTATGCGCCCCGCAGCGCGCCCGCTCCCACGCCCGCGTA
GCTGAGGACCCAGACTCGCCAGGAAAGGCTAGTGAGGCTGGGGCCCGGGCGGGCCCGGCCGGGCCGGGTCAGGGG
AGGGGCCTGGCGGCAGGGGCGGGGCCTCAGCTAAAGGCGCGGAGCACCCGGCGCCGAGAGCGCTGAGTAGAGCGG
CGCCCGCTCGAGAGAAGTGGGGCCGAGATCGCGCCGTCCCAGCCCGCCCGCCGGCGTCTGCGCTGCTCCGGCGCC
CTTACCCCTGCTGGCCCTTGCAAGGCGCGACCGGCGGCCATGCAGCCCCGGGGCTGAGGCCGCCCCATGGCAAAG
CCGGCGGTCCCGGCGACGACGGCGC**ATG**GAGAACTTCCGTAAGGTGCGCTCCGAAGAGGCGCCAGCGGGGTGCGG
GGCCGAGGGAGGCGGCCCGGGCTCCGGCCCCTTCGCAGACCTGGCGCCGGGCGCGGTGCACATGCGGGTCAAGGA
AGGCAGCAAGATCCGGAACCTGATGGCCTTCGCCACCGCCAGCATGGCGCAGCCAGCCACGCGCGCCATCGTCTT
CAGCGGCTGCGGCCGGGTCACCACCAAAACCGTCACGTGCGCCGAGATCCTCAAGCGCCGCCTGGCGGGCCTGCA
CCAGGTCACGCGGCTGCGCTACCGGAGCGTACGCGAGGTGTGGCAGAGCCTCCCGCCTGGGCCCACGCAGGGTCA
GACGCCTGGCGAGCCGGCCGCTAGTCTCAGCGTACTTAAGAACGTGCCCGGCCTCGCCATCCTACTTTCCAAGGA
CGCGCTGGATCCGCGACAGCCCGGCTACCAGCCCCCGAATCCCCATCCTGGTCCCTCGTCCCCGCCAGCCGCGCC
AGCGTCCAAGAGGAGCCTAGGGGAACCCGCAGCTGGAGAAGGCTCCGCGAAGCGATCGCAACCCGAGCCAGGGGT
TGCGGACGAGGATCAGACGGCC**TGA**AACTCCGGACTGTGGGCCACCTAGTCCGGCAGGATCTTCCGCCAGCGCCT
CCACCTTCAGATGTACCTCCAGCCTTTCACTCCTCGGTCCTCCGGAGCCCACAACCTGGACACAGCTCCTCAAGA
CAGGTAGCATGGACCTTAAGGCGACAAGAGAGGGGCCCCAGGAGTGGCAGGAGAGGATCCCCGACCACCCTAGGG
AAACTTCGTGCGATAATTGCTGCTTATGCCCGTGTTGCGTGAAGACACGGAACTTCACCTTTTCTGGGACCTTCT
TTGGGGGAGAATGGTGGACAGTGGGATTCTGGAAACTTGTTTGGGACCCCCAAGGGTTAAAGCCACCCAGCATTC
ACGAAGAGCACCTGAAGTATGGAAGCTGACTTTCTAGTTTTCTTTCCCCTGCTTCAGAGGAGCATCTCTGAGGGT
TCTAGCTCTTTTAACACCTCTTTTCCCCCTGCTGGCCCAGAGGGAGACCCAGGACTGAACTCTCCAGGCCTCCTC
CCCTGAGCCCTGCAGCTGGCTGGAGTCTTGTTTCCAATAAAACAAGCACAAAAAAAAAAAAAAA

FIGURE 2221

MENFRKVRSEEAPAGCGAEGGGPGSGPFADLAPGAVHMRVKEGSKIRNLMAFATASMAQPATRAIVFSGCGRVTT
KTVTCAEILKRRLAGLHQVTRLRYRSVREVWQSLPPGPTQGQTPGEPAASLSVLKNVPGLAILLSKDALDPRQPG
YQPPNPHPGPSSPPAAPASKRSLGEPAAGEGSAKRSQPEPGVADEDQTA

FIGURE 2222

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AATTCCCTCCGCCGCGGTCGCTGAGCGAGTGCGGCGGGAATGCGGAACCGGCGCGCGGGCTGAGGCCGCCCGGGA
TGGCGCAGGGGCGGCGGCGGCGGGCGGCCTGCGCGGGGCCCTAGCGAGCCGGGCTGACGCTCCCGGCCCCGGCCC
CGGCATCGGCATCGCGGGCGCATCGCGGCCATGGCCAAGGAGCGGCGCAGGGCGGTCCTGGAGCTGCTGCAGCGG
CCGGGGGAACGCGCGCTGCGCGGACTGCGGCGCCCCGGATCCCGACTGGGCCTCCTACACTCTGGGCGTCTTCATC
TGCCTGAGCTGCTCGGGAATCCACCGGAATATCCCCCAGGTCAGCAAGGTGAAGTCCGTCCGCCTGGACGCCTGG
GAGGAGGCCCAAGTGGAGTTCATGGCCTCCCACGGGAACGACGCCGCGAGAGCCAGGTTTGAGTCCAAAGTACCC
TCCTTCTACTACCGGCCCACGCCCTCCGACTGCCAGCTCCTTCGAGAGCAGTGGATCCGGGCCAAGTACGAGCGA
CAGGAGTTCATCTACCCGGAGAAGCAGGAGCCCTACTCGGCAGGGTACCGTGAGGGTTTTCTCTGGAAGCGTGGC
CGGGACAACGGGCAGTTTTTGAGCCGGAAGTTTGTGCTGACAGAACGAGAGGGTGCTCTGAAGTATTTCAACAGA
AATGATGCCAAGGAGCCCAAGGCCGTGATGAAGATCGAGCACCTGAATGCCACCTTCCAGCCGGCCAAGATCGGC
CACCCCCACGGCCTGCAGGTCACCTACCTGAAGGACAACAGCACCCGTAACATCTTCATCTACCATGAGGACGGG
AAGGAGATTGTGGACTGGTTCAATGCACTCCGAGCTGCTCGCTTCCACTACCTGCAGGTGGCATTCCCAGGGGCC
AGCGACGCAGATCTGGTGCCAAAGCTCTCCAGGAACTACCTGAAGGAAGGCTACATGGAGAAGACGGGGCCCAAG
CAAACGGAAGGCTTCCGGAAGCGCTGGTTCACCATGGATGACCGCAGGCTCATGTACTTCAAAGACCCCCTGGAC
GCCTTCGCCCGAGGGGAAGTCTTCATTGGCAGCAAGGAGAGTGGCTACACGGTGCTGCATGGGTTCCCGCCGTCC
ACCCAGGGCCACCACTGGCCACATGGCATCACCATCGTCACGCCCGACCGCAAGTTTCTGTTTGCCTGCGAGACG
GAGTCCGACCAGAGGGAGTGGGTGGCGGCCTTCCAGAAGGCGGTGGACAGGCCCATGCTGCCCCAGGAGTACGCA
GTGGAGGCGCACTTCAAGCATAAACCTTAGCGAGTGCGGCTGGAGGACCACGGACATTGGACTCACTGTGGCTGG
ACGGAGGGGACCCGTGGATGGGGGGGGCTCTGGCGTCCTGAGGCCACCTGGCCCCACCTGCTCCTCAGGGCAGCCC
GGCGCGGCCAGGTAGGGCCCGAGCTTCAGCTTCCAGGATGCTTCTCTGGAACCTCAAGGCAGGCAGCCCAGGCCC
TGGGCCTGATCTCTAACCCCGTCATGCTGCTGCTGACCACACCCAGCCAACCTGCCCCTCCCTGACCCGGGGCCC
CCTTTCCTCCAGGGCCCAGTCTGGCTCCCGAGCTCAGACACAGCCCCCAGGAGCCGCCCACCACGGCTGTGGGAA
CTTCCAGGCCTCAGCGCAGAGCCCTGCTTGGGGCCAGCACGGTGGGCAGCTGCCGGCCGCTGGGGACTGGGCCCT
GCTCGCATGCCGCCCCGCCCTCCCCCCACCTCCACGACTATTTATTGAGCGCCTGTTGTGTGTCACGGGGCTATG
AGGGCCGTGGGGTGTTTGGGTGGATTATCCACACAGGTCCCGGCCCCTGCCCGGGCTGGAGTTGCCACAGCCTGT
GCTCCTGGTCCTCACCTGGAGGGGCCAGCAGGCTGCCGTCCCACCACACGTGGCCTCTGCGCCCAGCACGGTGCT
CGCCGACAGTGGTGTCTGAACCCTTGGGGACGAGGGCCTGGGCCGCGGTGAGGCCACCAGAGGCAGGAGTGGCCC
TGGGGGTCCCGGGCACTGTCGCGCTTGCTGCAGGCGGCCCAGCCGTGTATTTATTTTTCACCTATCTCCTTCCTG
TCAAGGCAGGCCGGGCTCCAGGGCTCCCCTTGCGTGGGGCATGTAGGTGGGGGAGGCGTCTGCAGGTCACCTGGG
GGGCCCAGCCCTCTCCCAGCCTTGCCTGGCTGAGCTGTGTTCCAGGGGAGCCCTGGACAAGCCCTCATAGGCAGG
GAGGGGGTTTCCGAGGCCAGGCATCCGCCGCCCCGTGTCGCATCCTGGAATAAAATGTGGCTCTGGCATGGTTAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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2505/2825
FIGURE 2223

MAKERRRAVLELLQRPGNARCADCGAPDPDWASYTLGVFICLSCSGIHRNIPQVSKVKSVRLDAWEEAQVEFMAS
HGNDAARARFESKVPSFYYRPTPSDCQLLREQWIRAKYERQEFIYPEKQEPYSAGYREGFLWKRGRDNGQFLSRK
FVLTEREGALKYFNRNDAKEPKAVMKIEHLNATFQPAKIGHPHGLQVTYLKDNSTRNIFIYHEDGKEIVDWFNAL
RAARFHYLQVAFPGASDADLVPKLSRNYLKEGYMEKTGPKQTEGFRKRWFTMDDRRLMYFKDPLDAFARGEVFIG
SKESGYTVLHGFPPSTQGHHWPHGITIVTPDRKFLFACETESDQREWVAAFQKAVDRPMLPQEYAVEAHFKHKP

FIGURE 2224

AGAGTCGGGTAGACGGCAGCGGGAGCGGTGGCGTCTCCCCGCCTTCCCTCCCTCCCGGGCCTGGGCGCCCAGCCG
GACAGGTGAGCGGCAGCCAGGTGAGCGCGCCCACCTGCGCCTCTCCGCGCGGCCCGCCCTCCCCGGCGCCGGGCT
CCTCTCCGCGCCCCTGTCGGCGCGGAACCCTGGCCTCGTCCGCGGCCCAGCTCCCTGGAGCCTCGCATCAGCGGG
GGCGCCCCGCGAGCTGCGCTCTCCCCGGCCGGAGCGCTCCTCCTCCAGCCCCCAGCCCGCAGGGTACTTTGCCC
TCGGAGCGAAGGAGGCTCCAGAACTGGTAGAGCCGGGCCATCGGGCTGGGCACCTCCCCGCGGCGCCCGCAGCGC
GGAGTCCACTGACCGGCTCAAAGG**TATG**GCGTTGACGGTGGATGTGGCCGGGCCAGCGCCCTGGGGCTTCCGTAT
CACAGGGGGCAGGGATTTCCACACGCCCATCATGGTGACTAAGGTGGCCGAGCGGGGCAAAGCCAAGGACGCTGA
CCTCCGGCCTGGAGACATAATCGTGGCCATCAACGGGGAAAGCGCGGAGGGCATGCTGCATGCCGAGGCCCAGAG
CAAGATCCGCCAGAGCCCCTCGCCCCTGCGGCTGCAGCTGGACCGGTCTCAGGCTACGTCTCCAGGGCAGACCAA
TGGGGACAGCTCCTTGGAAGTGCTGGCGACTCGCTTCCAGGGCTCCGTGAGGACATACACTGAGAGTCAGTCCTC
CTTAAGGTCCTCCTACTCCAGCCCAACCTCCCTCAGCCCGAGGGCCGGCAGCCCCTTCTCACCACCACCCTCTAG
CAGCTCCCTCACTGGAGAGGCGGCCATCAGCCGCAGCTTCCAGAGTCTGGCATGTTCCCCGGGCCTCCCCGCTGC
TGACCGCCTGTCCTACTCAGGCCGCCCTGGAAGCCGACAGGCCGGCCTCGGCCGCGCTGGCGACTCGGCGGTGCT
GGTGCTGCCGCCTTCCCCGGGCCCTCGTTCCTCCAGGCCCAGCATGGACTCGGAAGGGGGAAGCCTCCTCCTGGA
CGAGGACTCGGAAGTCTTCAAGATGCTGCAGGAAAATCGCGAGGGACGGGCGGCCCCCCGACAGTCCAGCTCCTT
TCGGCTCTTGCAGGAAGCCCTGGAGGCTGAGGAGAGAGGTGGCACGCCAGCCTTCTTGCCCAGCTCACTGAGCCC
CCAGTCCTCCCTGCCCGCCTCCAGGGCCCTGGCCACCCCTCCCAAGCTCCACACTTGTGAGAAGTGCAGTACCAG
CATCGCGAACCAGGCTGTGCGCATCCAGGAGGGCCGGTACCGCCACCCCGGCTGCTACACCTGTGCCGACTGTGG
GCTGAACCTGAAGATGCGCGGGCACTTCTGGGTGGGTGACGAGCTGTACTGTGAGAAGCATGCCCGCCAGCGCTA
CTCCGCACCTGCCACCCTCAGCTCTCGGGCC**TGA**GCCCGCCATGCCCTCAGCCTGCCTCACTGCTGGGCCAGGGT
CATGCCTATATAAGTTGGCATGGCAGGGACAATGGTGGGCAGTTGCTCTTACATGAGCTAAGTTTGGAGACCTGA
GGCCCCTTTGTCCTCGCTGGGTGGGCCAAGGTCTGGGACCTGTCTTGGACTGTGGGAGACTCACCCTCACCTTGC
CAGGCCTCTCCCCTGCAGGACTGGCATTGCACTAGTCTGAGGTGGCCACTGCCTTTGATCAACCTTTGTGTGCGA
GGGTCTAAGTAGGGTCGAACACAGAAGTGGGAAGGAGAGGGGTGGGCCAGGGGCTAATGGTGTCACTGTGTAAAG
TTTTTGACATACTAGCTCTATAAATATATGAATATGGACAAAAT

2507/2825
FIGURE 2225

MALTVDVAGPAPWGFRITGGRDFHTPIMVTKVAERGKAKDADLRPGDIIVAINGESAEGMLHAEAQSKIRQSPSP
LRLQLDRSQATSPGQTNGDSSLEVLATRFQGSVRTYTESQSSLRSSYSSPTSLSPRAGSPFSPPPSSSSLTGEAA
ISRSFQSLACSPGLPAADRLSYSGRPGSRQAGLGRAGDSAVLVLPPSPGPRSSRPSMDSEGGSLLLDEDSEVFKM
LQENREGRAAPRQSSSFRLLQEALEAEERGGTPAFLPSSLSPQSSLPASRALATPPKLHTCEKCSTSIANQAVRI
QEGRYRHPGCYTCADCGLNLKMRGHFWVGDELYCEKHARQRYSAPATLSSRA

FIGURE 2226A

CGCGCCCCGGGCTCGGCCGACCCGGCGGGGATCTAGGGGTGGGCGACTTCGCGGGACCGTGGCGCATGTTTCCTG
GGAGTTACTGATCATCTTCTTTGAAGAAAC**ATG**AAGTTACACTATGTTGCTGTGCTTACTCTAGCCATCCTGATG
TTCCTGACATGGCTTCCAGAATCACTGAGCTGTAACAAAGCACTCTGTGCTAGTGATGTGAGCAAATGCCTCATT
CAGGAGCTCTGCCAGTGCCGGCCGGGAGAAGGCAATTGCTCCTGCTGTAAGGAGTGCATGCTGTGTCTTGGGGCC
CTTTGGGACGAGTGCTGTGACTGTGTTGGTATGTGTAATCCTCGAAATTATAGTGACACACCTCCAACTTCAAAG
AGCACAGTGGAGGAGCTGCATGAACCGATCCCTTCTCTCTTCCGGGCACTCACAGAAGGAGATACTCAGTTGAAT
TGGAACATCGTTTCTTTCCCTGTTGCAGAAGAACTTTCACATCATGAGAATCTGGTTTCATTTTTAGAAACTGTG
AACCAGCCACACCACCAGAATGTGTCTGTCCCCAGCAATAATGTTCACGCGCCTTATTCCAGTGACAAAGAACAC
ATGTGTACTGTGGTTTATTTTGATGACTGCATGTCCATACATCAGTGTAAAATATCCTGTGAGTCCATGGGAGCA
TCCAAATATCGCTGGTTTCATAATGCCTGCTGCGAGTGCATTGGTCCAGAATGTATTGACTATGGTAGTAAAACT
GTCAAATGTATGAACTGCATGTTT**TAA**AGAAGACAAATGCAAACCAAAGCAACTTAGTAAATAATAGGTATAAA
. AAGTTATTCTGTAAGTCTGTTGGTTGTATCTTGTATCAGAATCCCAGTAAGTTAAGTTGTAAAGACTTTGGAATA
AGTTTCTTTTAAAAATATGACATAGCCAGTGATGTGTTTAATTATATAACTGTTCTTACTGATTTTATTGCCCCC
TAGCAATAAGCCCTTTCCTTTGAATACATGTACAACTTTGGTCATATGAGAAGCAGGTGCGCAGAGAATTCCTTG
AAAGATCTGAGGTTTTTAACATAAAGTCTGATGTGGTTTTCCTCTAGCATTCCAAAAGGTTTTTGCTTTGAAAGT
GTTAGCAGAAGCATGTTGATGTGAATTATGATTTCTTCATGTGCTACTGTTAGCACACTGAGTTTTTATAGTTGC
ACATCATTCCTCATTGTGCCTTGTTTTATCCATTTATAAATAGAGTAGATATTTGATATACCACTCTGATAACT
CATATAAAAATATCATCATAAAAAGCTTAATTTCATCCCTTTTATGTTGGTTTTAAAAGGTAAATGCTTACCATA
TTTTATAATTGAGAACTCTTACATAGTAGAATCCATTCTATAATACATGTGTTGACAAAGCTTTAGAGAAAGTTT
CCTATTCTCTTCCATTTCCCCTGCCCAAAGTGCTGACATAGGCAGTGATGAAGAATCTTTACCAAGATTTTCAGG
GTGTACCTATGAAATTGCTTTAAATGCACTGCTGGTGTAAATAATTAGCAAGCAAAGCGTTTCTGTGACTTCAG
GTACCAGCTTAAAGAGCACTAGGGATGGGGAACGAATGCCAAATCAGACTCCACCTAGAGCACCAGGAAACAGCT
TGTACCCTGGTAGGGAAATGGTGTCGCTGAAAGGGGAGGCTGAGCCAGTGCGAGACTGAACTTGTGCAGCCTTAG
CCAAGACAAAGCAGTGTTTTTCAGCAGACGGCTGATGGGACAGGAATTGAAGAAGAGAATTGACTCGTATGAACA
GGACAGGGTGAAAATGCTGGGAATTATAATGGGAAACAAACTATCTATGTTCATATTTTGTAATATTTCATTTG
TTAAGTTTATATCTGGATATAATGTTCTTTTTAAACAAGTATAATCATATCGTCGGAGGTTAAGATTATGAAATT
TTAAAATCTCTATTCAAGATGATGTTCACTCCAAATACACTACAGAATTTAGTCAACATTTTATATAATGTTTCA
ATAAATGTTTCTTTCAATAAAGATACTATGTGCCCTTCATAGTAATAAAATCTCAATCTTAAAGCATGAATCTAA
AACATAAATATTTATATTACAGACTCAATTTTACAAAATTACTAATTGCTCTAGTGCATATTTGAACTACAAGCA
ACTTTTTAGGAATACCTCTTTATACGTCTACATATTTAGTATATAAAAATAGATAATGCTCTTGGACACATTTT
GTATTATTCATGATCTGAATAGTAGTTAGTTAAAAGATCATTTGTAATATTATGATCAACTGTTATAAATTAAGG
TCTTAATACCTTTTCTGCTCTTTCAAATAACTCTAATGAATATTCAAGATATTTTAGCCTTTTAAAAAGTTGAGA
TTTAGCTCATGGATATATTTTTTGGTAGGGAAACATTAGGGTCTCCTTTTCTTCCTTTTACCTAGAATGCCTCAT
TTAAAAGTGCCTTGAAAACATTTAGCTCCCCTTCTTCATGAGCATCTGTAGAGCTGAAAGTATTCTGGAACTTTA
GACAGAAAGCTGAAAGGAATCTGCAGTCTCCTGCTGCAGTTCAACTCTGCTGTTTTTCAGTCATTTCCTACTGTG
AGTGGAGTGATGTTTGTGTGTGTGTTGGCAACATGCCTAATGTTTTCTTAATGATGACAACAAATATTTTAAAAC
TGCATTTATCATTTTTTAGGTCTTCATTAAATTTTAAAATGTAATATCTGTTTCCCACCCCCTACATTAGGAGGA
TAATTTCTTAAACCACATTGTTTTAATTGATTTTTCTTATCTTGATTTCTTTCATTAGAAACTATCCCTAAATGT
AAAGATCTTTTGCCTTCAAATTTGGCTTATTTTTTCTGATTTATGAGGGTTTGAAAGAAAGAATTCACCTAAAAG
ATTCCATTTCCAGTTTTATAATGTATTTCAGGTTCTGAATAACAATATTTTTCCAAATTGAAAGTAAATATTCAA
GAAGTTGATAGCCTGGTTAAAAGTTAGATCCTCTATTACCATTCTAAGCACATTCACTTCTATATTGAAGTTTTG
GTAAAAATTCTTTTTTCTTTTTTAATAAAAAATTAGGTTATTACTTTTTTTATAACCAGATTTTTAAAGCACTAG
GTTTTAAATCAGTGGGTATCATAAAAGCCATATATAAAAGATCCTTTCTTATAGTAAGACTTGTGCTTGTTAGCA
GGTTTTTCTGTTAGTTTTTCCCCCATAACATTTAATTATTACTAAAATTGTATTTACAATAGTGGTGCCAAATCA
AATGGTAATTTAAATAAAATCTATTCTGTGTTTATGTAGGGTGGTATAAAAAGAGGTCTTCATTTAGACATGTG
ATTTCTAAAATTCCAGAAAGCAAAATTGATAAGATGTTAGAAATTTGGACCGTTATTTATAATCAGGGTAGCATT
AAAATGGAGAAAGAAAGTTTTCTGAAAAAATGCAGTAAATATAAGCCACATTTCTAAAGTTTATTTTTATGAAA
GCTTCTTTTAAGATTTTGAAATCTATTCTGCATTCCCAAGAGTTTATGTTTATTGTATTTTATATGATCTACAAC

2509/2825
FIGURE 2226B

ATATAAAATTGTGTATTTTTCTTTGGTTGTCCCTATTAACAAAAAGTATTTTAATAAAAAATTGAAATGAAAAA
AAAAAAAAAAAAAAAAAA

2510/2825
FIGURE 2227

MKLHYVAVLTLAILMFLTWLPESLSCNKALCASDVSKCLIQELCQCRPGEGNCSCCKECMLCLGALWDECCDCVG
MCNPRNYSDTPPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVSFLETVNQPHHQNVSV
PSNNVHAPYSSDKEHMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKCMNCMF

FIGURE 2228

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TTTCACCTCAGCAAGGCCAGGGGATCTGCACGTTGTGTTAGACATGGCTAAAGTAGCTGATACCATCCTGTTCCT
CCTTGATCCACTAGAAGGCTGGGACAGCACCGGTGATTACTGTCTTTCCTGCCTCTTTGCTCAGGGCCTTCCGAC
CTATACACTAGCTGTCCAGGGGATTTCTGGCCTCCCACTGAAGAAACAAATAGATACCAGGAAGAAGCTAAGTAA
AGCAGTGGAGAAGCGCTTTCCGCATGACAAACTCCTCTTGTTAGACACTCAACAGGAGGCAGGGATGCTGCTTAG
GCAGTTGGCTAACCAGAAGCAACAGCATCTTGCTTTTCGAGATCGGCGGGCCTACCTATTTGCCCATGCTGTTGA
TTTTGTTCCTAGTGAAGAGAATAACTTGGTGGGCACCTTGAAAATTTCAGGCTATGTTCGAGGGCAGACTCTGAA
TGTCAATAGGTTGCTGCATATCGTTGGATATGGTGATTTCCAGATGAAACAGATAGATGCCCCCGGAGACCCTTT
CCCTTTAAATCCTAGAGGAATTAAACCCCAAAAGGACCCAGACATGGCAATGGAGATTTGTGCTACGGATGCTGT
AGATGATATGGAAGAAGGTCTTAAAGTCCTAATGAAGGCAGACCCTTGTAGACAGGAATCCTTGCAAGCAGAGGT
TATCCCAGATCCAATGGAGGGAGAGCAAACCTGGCCCACTGAGGAGGAGCTGAGCGAGGCAAAGGATTTCTTGAA
GGAAAGTTCTAAGGTGGTAAAGAAGGTCCCCAAAGGAACATCCAGTTACCAAGCTGAATGGATTTTGGATGGTGG
CAGCCAAAGTGGTGGGGAAGGAGATGAATATGAATATGATGATATGGAACATGAGGATTTTATGGAGGAGGAATC
TCAGGATGAGAGTAGTGAAGAAGAGGAAGAATATGAAACTATGACTATTGGGGAGTCTGTGCATGATGATCTGTA
TGATAAGAAAGTAGATGAAGAAGCTGAGGCAAAAATGTTGGAGAAATATAAACAAGAAAGACTGGAAGAGATGTT
TCCAGATGAAGTGGACACGCCCCGTGATGTGGCTGCTCGAATTCGATTTCAGAAATACAGAGGCCTTAAGAGCTT
CCGGACATCTCCATGGGATCCTAAGGAAAACCTTCCTCAAGATTATGCTCGAATATTTCAGTTTCAGAACTTTAC
TAACACTAGGAAAAGCATCTTTAAAGAGGTTGAAGAAAAGAGGTTGAAGGAGCTGAGGTTGGCTGGTATGTCAC
ACTTCATGTCTCTGAAGTCCCCGTCTCAGTGGTCGAGTGCTTCAGGCAAGGAACACCCTTGATTGCATTTTCTTT
ACTACCTCATGAACAGAAGATGTCAGTATTGAATATGGTGGTGAGGCGTGACCCTGGCAACACTGAACCTGTGAA
AGCCAAGGAGGAGCTCATATTTCACTGTGGATTCAGGCGCTTCCGAGCCTCACCTTTATTCTCTCAGCACACTGC
AGCGGACAAACATAAATTGCAGAGATTCCTGACTGCTGACATGGCCCTGGTGGCGACAGTCTATGCGCCAATCAC
TTTTCCTCCTGCATCTGTGCTGCTTTTCAAGCAGAAAAGCAATGGAATGCACAGCCTCATTGCTACAGGCCATCT
TATGTCAGTAGATCCAGACAGAATGGTCATCAAGAGAGTTGTTCTGAGTGGTCATCCTTTCAAAATTTTTACTAA
GATGGCAGTAGTACGTTACATGTTCTTCAACAGAGAGGATGTGCTGTGGTTTAAACCAGTGGAACTGAGAACGAA
GTGGGGCCGGAGAGGACATATCAAGGAACCTTTAGGTACCCATGGCCACATGAAATGCAGCTTTGATGGGAAGCT
AAAATCTCAAGACACAGTACTGATGAACCTGTATAAACGAGTCTTCCCCAAATGGACTTATGATCCATATGTACC
AGAACCAGTACCCTGGCTGAAAAGTGAGATTTCTTCAACAGTGCCTCAAGGGGGCATGGAGTAATGGATTCAAAG
AGATTCTGTCCTACCGGTGCCAGTCAGTACTCCAGGGATGGGAGGCACAAGTTGTGATTGGGCAAAGTTTATTTT
CTATGTCAGCCTGTCAGTCCACTGCCCCATTTTGCAAGACTTTTTTTTAGCCTTGACAAAATGTCTCAGTTAAGT
ATAAAAGTTTTTCCACTACTTAGTCCAAAAAAAACTATTAAATCTTAATGAAAT
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FIGURE 2229

MAKVADTILFLLDPLEGWDSTGDYCLSCLFAQGLPTYTLAVQGISGLPLKKQIDTRKKLSKAVEKRFPHDKLLLL
DTQQEAGMLLRQLANQKQQHLAFRDRRAYLFAHAVDFVPSEENNLVGTLKISGYVRGQTLNVNRLLHIVGYGDFQ
MKQIDAPGDPFPLNPRGIKPQKDPDMAMEICATDAVDDMEEGLKVLMKADPCRQESLQAEVIPDPMEGEQTWPTE
EELSEAKDFLKESSKVVKKVPKGTSSYQAEWILDGGSQSGGEGDEYEYDDMEHEDFMEEESQDESSEEEEYETM
TIGESVHDDLYDKKVDEEAEAKMLEKYKQERLEEMFPDEVDTPRDVAARIRFQKYRGLKSFRTSPWDPKENLPQD
YARIFQFQNFTNTRKSIFKEVEEKEVEGAEVGWYVTLHVSEVPVSVVECFRQGTPLIAFSLLPHEQKMSVLNMVV
RRDPGNTEPVKAKEELIFHCGFRRFRASPLFSQHTAADKHKLQRFLTADMALVATVYAPITFPPASVLLFKQKSN
GMHSLIATGHLMSVDPDRMVIKRVVLSGHPFKIFTKMAVVRYMFFNREDVLWFKPVELRTKWGRRGHIKEPLGTH
GHMKCSFDGKLKSQDTVLMNLYKRVFPKWTYDPYVPEPVPWLKSEISSTVPQGGME

FIGURE 2230

GGCGGCGGCGGCGGCGGCGAAGAACTGTTCCTTCCACCTCTTCAGCCCCGGCAGGACGGGGGCGGCCGCCGCGAA
CCCGGGGCGGGGACAGCACGCAGCCTCGAGGCGCGCACCCCCGCCCGGCAGCGGCCCCGACACCCGGGGCGAGCG
GGAAAACGGCAACGGCGGCGGCGGCGGCGGCGGGGGAAGG**ATG**CAGGGGAAGAAGCCGGGCGGTTCGTCGGG
CGGCGGCCGGAGCGGCGAGCTGCAGGGGGACGAGGCGCAGAGGAACAAGAAAAAGAAAAAGAAGGTGTCCTGCTT
TTCCAACATCAAGATCTTCCTGGTGTCCGAGTGCGCCCTGATGCTGGCGCAGGGCACGGTGGGCGCCTACCTGGT
GAGCGTCCTGACCACCCTGGAGCGTAGGTTCAACCTGCAGAGCGCTGACGTGGGTGTGATCGCTAGCAGCTTCGA
GATCGGGAACCTGGCGCTCATCCTCTTCGTGAGCTACTTCGGGGCACGCGGGCACCGGCCGCGCCTGATCGGCTG
CGGCGGCATCGTCATGGCGCTGGGCGCGCTGCTGTCGGCGCTGCCCGAGTTCCTGACCCACCAGTACAAGTACGA
GGCGGGCGAGATCCGCTGGGGCGCCGAGGGCCGCGACGTCTGCGCAGCCAACGGCTCGGGCGGCGACGAGGGGCC
CGACCCCGACCTCATCTGCCGCAACCGGACGGCTACCAACATGATGTACTTGCTGCTCATTGGGGCCCAGGTGCT
CCTGGGCATCGGTGCTACCCCTGTGCAGCCCCTGGGCGTCTCCTACTACGACGACCACGTGCGGAGGAAGGACTC
CTCGCTCTATATAGGAATCCTGTTCACGATGCTGGTATTTGGACCAGCCTGCGGGTTTATCCTGGGCTCTTTCTG
TACCAAAATCTACGTGGATGCGGTCTTCATTGACACAAGTAACCTGGACATCACTCCGGACGACCCCGCTGGAT
CGGAGCCTGGTGGGGTGGCTTTCTGCTCTGCGGTGCCTTACTCTTCTTCTCTTCCCTCTTGATGTTTGGGTTTCC
ACAGTCCCTGCCCCCGCACTCAGACCCCGCCATGGAAAGCGAGCAGGCCATGCTCTCCGAAAGAGAATACGAGAG
ACCCAAGCCCAGCAACGGGGTCCTGAGGCACCCCCTGGAGCCAGACAGCAGTGCCTCCTGTTCCAGCAGCTGAG
AGTGATCCCGAAGGTCACCAAGCACCTGCTCTCAAACCCTGTGTTCACCTGCATCATCCTGGCCGCCTGCATGGA
GATTGCAGTGGTGGCTGGCTTCGCTGCCTTTTTGGGGAAGTACCTGGAGCAGCAGTTTAACCTCACCACCTCTTC
TGCCAACCAGCTGCTTGGGATGACTGCGATCCCGTGTGCTTGTCTGGGTATCTTCCTGGGAGGTCTTTTGGTGAA
GAAGCTCAGCCTGTCTGCCCTGGGGGCCATTCGGATGGCCATGCTCGTCAACCTGGTGTCCACTGCTTGCTACGT
CTCCTTCCTCTTCCTGGGCTGCGACACTGGCCCTGTGGCTGGGGTTACTGTTCCCTATGGAAACAGCACAGCACC
TGGCTCAGCCCTGGACCCCTACTCGCCCTGCAATAATAACTGTGAATGCCAAACCGATTCCTTCACTCCAGTGTG
TGGGGCAGATGGCATCACCTACCTGTCTGCCTGCTTTGCTGGCTGCAACAGCACGAATCTCACGGGCTGTGCGTG
CCTCACCACCGTCCCTGCTGAGAACGCAACCGTGGTTCCTGGAAAATGCCCCAGTCCTGGGTGCCAAGAGGCCTT
CCTCACTTTCCTCTGTGTGATGTGTATCTGCAGCCTGATCGGTGCCATGGCACAGACACCCTCAGTCATCATCCT
CATCAGGACAGTCAGCCCTGAACTCAAGTCTTACGCTTTGGGAGTTCTTTTTCTCCTCCTTCGTTTGTTGGGCTT
CATCCCTCCACCCCTCATCTTCGGGGCTGGCATCGACTCCACCTGCCTGTTCTGGAGCACGTTCTGTGGGGAGCA
AGGCGCCTGCGTCCTCTACGACAATGTGGTCTACCGATACCTGTATGTCAGCATCGCCATCGCGCTCAAATCCTT
CGCCTTCATCCTGTACACCACCACGTGGCAGTGCCTGAGGAAAAACTATAAACGCTACATCAAAAACCACGAGGG
CGGGCTGAGCACCAGTGAGTTCTTTGCCTCTACTCTGACCCTAGACAACCTGGGGAGGGACCCTGTGCCCGCAAA
CCAGACACATAGGACAAAGTTTATCTATAACCTGGAAGACCATGAGTGGTGTGAAAACATGGAGTCCGTTTTA**TA
G**TGACTAAAGGAGGGCTGAACTCTGTATTAGTAATCCAAGGGTCATTTTTTTCTTAAAAAAAGAAAAAAAGGTTC
CAAAAAAAACCAAAACTCAGTACACACACACAGGCACAGATGCACACACACGCAGACAGACACACCGACTTTGTC
CTTTTTCTCAGCATCAGAGCCAGACAGGATTCAGAATAAGGAGAGAATGACATCGTGCGGCAGGGTCCTGGAGGC
CACTCGCGCGGCTGGGCCACAGAGTCTACTTTGAAGGCACCTCATGGTTTTCAGGATGCTGACAGCTGCAAGCAA
CAGGCACTGCCAAATTCAGGGAACAGTGGTGGCCAGCTTGGAGGATGGACATTTCTGGATACACATACACATACA
AAACAGAAAACATTTTTAAAAGAAGTTTCCTAAAATAAA

FIGURE 2231

MQGKKPGGSSGGGRSGELQGDEAQRNKKKKKKVSCFSNIKIFLVSECALMLAQGTVGAYLVSVLTTLERRFNLQS
ADVGVIASSFEIGNLALILFVSYFGARGHRPRLIGCGGIVMALGALLSALPEFLTHQYKYEAGEIRWGAEGRDVC
AANGSGGDEGPDPDLICRNRTATNMMYLLLIGAQVLLGIGATPVQPLGVSYYDDHVRRKDSSLYIGILFTMLVFG
PACGFILGSFCTKIYVDAVFIDTSNLDITPDDPRWIGAWWGGFLLCGALLFFSSLLMFGFPQSLPPHSDPAMESE
QAMLSEREYERPKPSNGVLRHPLEPDSSASCFQQLRVIPKVTKHLLSNPVFTCIILAACMEIAVVAGFAAFLGKY
LEQQFNLTTSSANQLLGMTAIPCACLGIFLGGLLVKKLSLSALGAIRMAMLVNLVSTACYVSFLFLGCDTGPVAG
VTVPYGNSTAPGSALDPYSPCNNNCECQTDSFTPVCGADGITYLSACFAGCNSTNLTGCACLTTVPAENATVVPG
KCPSPGCQEAFLTFLCVMCICSLIGAMAQTPSVIILIRTVSPELKSYALGVLFLLLRLLGFIPPPLIFGAGIDST
CLFWSTFCGEQGACVLYDNVVYRYLYVSIAIALKSFAFILYTTTWQCLRKNYKRYIKNHEGGLSTSEFFASTLTL
DNLGRDPVPANQTHRTKFIYNLEDHEWCENMESVL

FIGURE 2232

AGAGAGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGACA**ATG**GCAGCCCAATACGGCAGTATGAGCTTCA
ACCCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACA
CACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCACTGGGCCGTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAGTTTCATGATTCTCATATTCACCCGGAAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGGTGAGGGAGAACAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGCGGAGGAGGAGATCCAGAAGC
AAACACAAGCAATGCAAGAACTCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAGAGAAAGAAGCAAATGGAGAAGAAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACTTGAATTAA
TCATGACAGCGTTACAGATTGCTTCCTTTATTTTGTTACGTCTGTTCGCGGAAGAT**TAA**ACTTAATGAAAATCTG
TTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGTCTCTCAGGCACTCGTAACTAAGGACCACCATTGGCCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGA
CAAATTTTCAATTTGTGAAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTGAATTCTTCCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCTCCCCTTGTAGCTTCCACTCACTTATTCTTGCATTCAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGAGAAAGAAAGATCAATTCTTTGTTTGCAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCCTAGATGAGTGTCAATTTATTTAATTCCATTGTCATATAAGGAGTCAAATTGTTTC
TTATCATTTGTTCATTGAAGAACAGAGACCTGTCTGGAAAATCGATCTCTACAAATTCAATTAAATAATGATCCC
CAAATGCTGAAAAAGTGAAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTCAGCTGTATCTGTA
GAAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTTCTTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCACACACTTCTGCCCCCACT
GCATTGAATTTTTTGCTTATGTTGTTTATAATAAAACTTTTCAATTATCTC

FIGURE 2233

MAAQYGSMSFNPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARSFMI
LIFTRKDDLGDTNLHDYLREAPEDIQDLMDIFGDRYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCYTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRKKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

FIGURE 2234

GGCATGATGGGCACCTGGAGGGCCGCACTCCCGTTCCAGCCAGGCTGAGCCTTCTGTCCCCTGCCTCTGGGGCCT
GGGAACCCCCCTTCTTCTTTCTCCTGAATGGCACCCCGCCCTAGAATCCAGACACCGAGTTTCCCACTGTGGCT
GGTTCAAGGGTATGTGAGAGCTCCCTGGTGACAGTCTGTGGCTGAGC**ATG**GCCCTCCCAGCCCTGGGCCTGGACC
CCTGGAGCCTCCTGGGCCTTTTCCTCTTCCAACTGCTTCAGCTGCTGCTGCCGACGACGACCGCGGGGGGAGGCG
GGCAGGGGCCCATGCCCAGGGTCAGATACTATGCAGGGGATGAACGTAGGGCACTTAGCTTCTTCCACCAGAAGG
GCCTCCAGGATTTTGACACTCTGCTCCTGAGTGGTGATGGAAATACTCTCTACGTGGGGGCTCGAGAAGCCATTC
TGGCCTTGGATATCCAGGATCCAGGGGTCCCCAGGCTAAAGAACATGATACCGTGGCCAGCCAGTGACAGAAAAA
AGAGTGAATGTGCCTTTAAGAAGAAGAGCAATGAGACACAGTGTTTCAACTTCATCCGTGTCCTGGTTTCTTACA
ATGTCACCCATCTCTACACCTGCGGCACCTTCGCCTTCAGCCCTGCTTGTACCTTCATTGAACTTCAAGATTCCT
ACCTGTTGCCCATCTCGGAGGACAAGGTCATGGAGGGAAAAGGCCAAAGCCCCTTTGACCCCGCTCACAAGCATA
CGGCTGTCTTGGTGGATGGGATGCTCTATTCTGGTACTATGAACAACTTCCTGGGCAGTGAGCCCATCCTGATGC
GCACACTGGGATCCCAGCCTGTCCTCAAGACCGACAACTTCCTCCGCTGGCTGCATCATGACGCCTCCTTTGTGG
CAGCCATCCCTTCGACCCAGGTCGTCTACTTCTTCTTCGAGGAGACAGCCAGCGAGTTTGACTTCTTTGAGAGGC
TCCACACATCGCGGGTGGCTAGAGTCTGCAAGAATGACGTGGGCGGCGAAAAGCTGCTGCAGAAGAAGTGGACCA
CCTTCCTGAAGGCCCAGCTGCTCTGCACCCAGCCGGGGCAGCTGCCCTTCAACGTCATCCGCCACGCGGTCCTGC
TCCCCGCCGATTCTCCCACAGCTCCCCACATCTACGCAGTCTTCACCTCCCAGTGGCAGGTTGGCGGGACCAGGA
GCTCTGCGGTTTGTGCCTTCTCTCTCTTGGACATTGAACGTGTCTTTAAGGGGAAATACAAAGAGTTGAACAAAG
AAACTTCACGCTGGACTACTTATAGGGGCCCTGAGACCAACCCCCGGCCAGGCAGTTGCTCAGTGGGCCCCTCCT
CTGATAAGGCCCTGACCTTCATGAAGGACCATTTCCTGATGGATGAGCAAGTGGTGGGGACGCCCCTGCTGGTGA
AATCTGGCGTGGAGTATACACGGCTTGCAGTGGAGACAGCCCAGGGCCTTGATGGGCACAGCCATCTTGTCATGT
ACCTGGGAACCACCACAGGGTCGCTCCACAAGGCTGTGGTAAGTGGGGACAGCAGTGCTCATCTGGTGGAAGAGA
TTCAGCTGTTCCCTGACCCTGAACCTGTTCGCAACCTGCAGCTGGCCCCCACCCAGGGTGCAGTGTTTGTAGGCT
TCTCAGGAGGTGTCTGGAGGGTGCCCCGAGCCAACTGTAGTGTCTATGAGAGCTGTGTGGACTGTGTCCTTGCCC
GGGACCCCACTGTGCCTGGGACCCTGAGTCCCGAACCTGTTGCCTCCTGTCTGCCCCCAACCTGAACTCCTGGA
AGCAGGACATGGAGCGGGGGAACCCAGAGTGGGCATGTGCCAGTGGCCCCATGAGCAGGAGCCTTCGGCCTCAGA
GCCGCCCGCAAATCATTAAAGAAGTCCTGGCTGTCCCTAACTCCATCCTGGAGCTCCCCTGCCCCCACCTGTCAG
CCTTGGCCTCTTATTATTGGAGTCATGGCCCAGCAGCAGTCCCAGAAGCCTCTṪCCACTGTCTACAATGGCTCCC
TCTTGCTGATAGTGCAGGATGGAGTTGGGGGTCTCTACCAGTGCTGGGCAACTGAGAATGGCTTTTCATACCCTG
TGATCTCCTACTGGGTGGACAGCCAGGACCAGACCCTGGCCCTGGATCCTGAACTGGCAGGCATCCCCCGGGAGC
ATGTGAAGGTCCCCGTTGACCAGGGTCAGTGGTGGGGCCGCCCTGGCTGCCCAGCAGTCCTACTGGCCCCACTTTG
TCACTGTCACTGTCCTCTTTGCCTTAGTGCTTTCAGGAGCCCTCATCATCCTCGTGGCCTCCCCATTGAGAGCAC
TCCGGGCTCGGGGCAAGGTTCAGGGCTGTGAGACCCTGCGCCCTGGGGAGAAGGCCCCGTTAAGCAGAGAGCAAC
ACCTCCAGTCTCCCAAGGAATGCAGGACCTCTGCCAGTGATGTGGACGCTGACAACAACTGCCTAGGCACTGAGG
TAGCT**TAA**ACTCTAGGCACAGGCCGGGGCTGCGGTGCAGGCACCTGGCCATGCTGGCTGGGCGGCCCAAGCACAG
CCCTGACTAGGATGACAGCAGCACAAAAGACCACCTTTCTCCCCTGAGAGGAGCTTCTGCTACTCTGCATCACTG
ATGACACTCAGCAGGGTGATGCACAGCAGTCTGCCTCCCCTATGGGACTCCCTTCTACCAAGCACATGAGCTCTC
TAACAGGGTGGGGGCTACCCCCAGACCTGCTCCTACACTGATATTGAAGAACCTGGAGAGGATCCTTCAGTTCTG
GCCATTCCAGGGACCCTCCAGAAACACAGTGTTTCAAGAGACCCTAAAAAACCTGCCTGTCCCAGGACCCTATGG
TAATGAACACCAAACATCTAAACAATCATATGCTAACATGCCACTCCTGGAAACTCCACTCTGAAGCTGCCGCTT
TGGACACCAACACTCCCTTCTCCCAGGGTCATGCAGGGATCTGCTCCCTCCTGCTTCCCTTACCAGTCGTGCACC
GCTGACTCCCAGGAAGTCTTTCCTGAAGTCTGACCACCTTTCTTCTTGCTTCAGTTGGGGCAGACTCTGATCCCT
TCTGCCCTGGCAGAATGGCAGGGGTAATCTGAGCCTTCTTCACTCCTTTACCCTAGCTGACCCCTTCACCTCTCC
CCCTCCCTTTTCCTTTGTTTTGGGATTCAGAAAACTGCTTGTCAGAGACTGTTTATTTTTTATTAAAAATATAAG
GCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2518/2825
FIGURE 2235

MALPALGLDPWSLLGLFLFQLLQLLLPTTTAGGGGQGPMPRVRYYAGDERRALSFFHQKGLQDFDTLLLSGDGNT
LYVGAREAILALDIQDPGVPRLKNMIPWPASDRKKSECAFKKKSNETQCFNFIRVLVSYNVTHLYTCGTFAFSPA
CTFIELQDSYLLPISEDKVMEGKGQSPFDPAHKHTAVLVDGMLYSGTMNNFLGSEPILMRTLGSQPVLKTDNFLR
WLHHDASFVAAIPSTQVVYFFFEETASEFDFFERLHTSRVARVCKNDVGGEKLLQKKWTTFLKAQLLCTQPGQLP
FNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLLDIERVFKGKYKELNKETSRWTTYRGPETNPR
PGSCSVGPSSDKALTFMKDHFLMDEQVVGTPLLVKSGVEYTRLAVETAQGLDGHSHLVMYLGTTTGSLHKAVVSG
DSSAHLVEEIQLFPDPEPVRNLQLAPTQGAVFVGFSGGVWRVPRANCSVYESCVDCVLARDPHCAWDPESRTCCL
LSAPNLNSWKQDMERGNPEWACASGPMSRSLRPQSRPQIIKEVLAVPNSILELPCPHLSALASYYWSHGPAAVPE
ASSTVYNGSLLLIVQDGVGGLYQCWATENGFSYPVISYWVDSQDQTLALDPELAGIPREHVKVPLTRVSGGAALA
AQQSYWPHFVTVTVLFALVLSGALIILVASPLRALRARGKVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVD
ADNNCLGTEVA

GTGCATGAGGGGGCTGCTCCGGAGCGACGGCGGCTGCAGCTGGAGCCAGGCGCTCGCCCGTCCGCCGGTTGGCTC
GCCGGGACCTCGCGCACCGGCGGCAGAGTCCCTTGCGTGGATTGGCAAGCGACGCCCCACCTGCCCCGAGCTCAC
CATTTTCTTTCGCGCTGGCTGCAGCTGACCCGGCGAAGGGAGCCGACCGGGCCCTGGGCTGGAGGTAAAACCCCA
CGGAAAGAACATGAGGTTCCCTTGGAAATCATTCAAGAGGAAGATGGAAGGGGCTGTTTAGAAGAGCTTAAAAGC
TACAGGCTGTAAGACTGGGGCCTGAGTGCTGGCAGTGGAAAACACTGTTGGGCTGTGATCTCTCCCTGAAAAGTT
CCAGGTGCCTTTTTGCTTCCTGCAAAAGAAAGGAAGCGAAAGAGAAGACC**ATG**TCCATAGCCCTGAAGCAGGTAT
TCAACAAGGACAAGACCTTCCGACCCAAGAGGAAATTTGAACCTGGCACACAGAGGTTTGAGCTGCACAAACGGG
CTCAGGCATCCCTCAACTCGGGTGTGGACCTGAAGGCGGCTGTGCAGTTGCCCAGTGGGGAGGACCAGAATGACT
GGGTGGCAGTACATGTGGTGGACTTCTTCAATCGGATCAACCTCATCTATGGCACCATCTGTGAGTTCTGCACCG
AGCGGACCTGTCCTGTGATGTCAGGGGGCCCCAAATATGAGTATCGGTGGCAGGATGATCTCAAGTATAAGAAGC
CAACAGCGCTGCCAGCTCCCCAGTACATGAACCTTCTTATGGATTGGATTGAGGTTCAGATCAACAACGAGGAAA
TATTTCCAACATGCGTGGGTGTTCCCTTCCCAAAGAACTTCCTTCAGATCTGCAAGAAGATCCTGTGCCGCCTTT
TCCGGGTCTTTGTCCACGTCTATATCCACCACTTCGACCGGGTCATTGTGATGGGTGCAGAGGCCCATGTCAACA
CCTGCTACAAACACTTCTATTACTTTGTCACAGAGATGAACCTCATAGACCGCAAGGAGCTAGAGCCTTTGAAAG
AAATGACGAGCAGGATGTGTCAC**TAA**TGCTCCACCTCACCCTTTGGAAGAAAGGAAAGCTGTTTCCTCCTGGTGC
CCTGAGCGGGCAGGAGGTGGACCACCCTGGCTGAAATGACACACCTACTCCCAGGAACAGCAGAGGTGGAGGCAA
GCAGTGACTCCTGAGAGACATTCCCCACTCACTTTGTGTGCTCTTAACCTTCTGAGTGCTGCTAGCCCAGACCTG
TGGACGAGGCAGACCACAACGTGAAAGAAGGACCAGCCCCTTGACCGTTCTGGCTGGGGAATTGTCCACGAGGAA
GCCTCTGCGCTTCCACACATGGCACAGTTCTGCCTGTGACCTGCCGCCTAAGCTTTACTGGAATTCAGGTTTTGA
GACTGAGATGCGTGTTCGTATTTTTCCACTTATCTGTCTTGTCAGCTGGCCGACTTCTCTGTGATTGGTTTTTTA
AGTGCCGGGTGAATTTTGGACCTCTGGATGTGCAGCAAGTTTTTATGCAATAAGCCTTCCTTTCAGGTCTCTAAA
AGCTCCTGCTCTGATCTGTGGTTTAACACTGTGCAGGGCTGTGGAGCTCTGAGAGACCTGAACCCCTACCCATCC
CCTGCACCTCCCTACTCTCCCTGCCGAGGCGTCCATAGCATTTCCCTAATAAATAGTTTTATCAGGGACACTCCA
TGGGGTGGCTTGTCTCTGCCCCAAACAGGGTCTTCACGTTCTAACTGCAGGGAAGAGACTGGTTACTAGCGTAAA
GCTGACAAGTTACCAGTTCACCTGATCAGAATGTATTTTTTATAACCACCATCATTCCTTGTCTCTTCAGTGGAA
GATATTCTTTCCTGTTTCCCAGAAGAGAGAAATAAAAGTCCTAAATAACTAAGAATGATCAGCGGGAGCGTTGGG
CATGATTACTGCAGTGTTTGTTCTTTATTAAAGACAGGGAGTCGTGGCTGTCTCTACATAATACTAACATTTCAG
TGAAAAAGTACAGTTGGTTATTTGGTACGTGTAGATTTAACACCCAGACGGCTGACTTGTAACCCTCCCCACTA
GCCTTCTGAGCATTTAAACCCAGCCGTCATTCTCTCCCCACTCCACGCTCCCCACTCCTCTGCCACGTTATGTTA
CGGCACAAAATTAATTTCTGCCCCTGTGATTGGGCCACGGTTGCCAAGGTAACAGTGGAGCTGGAGCTAACTTCC
TTCTTTCATCCTTTCCAATTTTTCTATTCCAGAAGACAGTCAGAATAATGCATTCTGTACTACATCCTGCCTTTT
GAAACCTAAATGAGTTTTCGTTGATGAAATGTTGCCTTCTCTGATTCATTCACAAAACTGTGGTGGTTCTGACCA
CCTGTGACGAGGGGGGTCATAATACTTCCAGTGATCCTTTTAATTTAGCAAATATTTGTCGGTGGAGGGAAGTA
GATAAGAATGTATTAGTGTATTTTAAAGTAATAATGATTAAAGAATAACTAAATGAC

2520/2825
FIGURE 2237

MSIALKQVFNKDKTFRPKRKFEPGTQRFELHKRAQASLNSGVDLKAAVQLPSGEDQNDWVAVHVVDFFNRINLIY
GTICEFCTERTCPVMSGGPKYEYRWQDDLKYKKPTALPAPQYMNLLMDWIEVQINNEEIFPTCVGVPFPKNFLQI
CKKILCRLFRVFVHVYIHHFDRVIVMGAEAHVNTCYKHFYYFVTEMNLIDRKELEPLKEMTSRMCH

FIGURE 2238

GGCACGAGGCTCTGGTGGCTAGCCTGTCCTGACAGGGGAGAGTTAAGCTCCCGTTCTCCACCGTGCCGGCTGGCC
AGGTGGGCTGAGGGTGACCGAGAGACCAGAACCTGCTTGCTGGAGCTTAGTGCTCAGAGCTGGGGAGGGAGGTTC
CGCCGCTCCTCTGCTGTCAGCGCCGGCAGCCCCTCCCGGCTTCACTTCCTCCCGCAGCCCCTGCTACTGAGAAGC
TCCGGGATCCCAGCAGCCGCCACGCCCTGGCCTCAGCCTGCGGGGCTCCAGTCAGGCCAACACCGACGCGCAGCT
GGGAGGAAGACAGGACCCTTGACATCTCCATCTGCACAGAGGTCCTGGCTGGACCGAGCAGCCTCCTCCTCCTAG
G**ATG**ACCTCACCCTCCAGCTCTCCAGTTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGC
GGACAGAGGAAAGCTGGATTTTGGGAGCGGGCTGCCTCCCATGGAGTCACAGTTCCAGGGCGAGGACCGGAAATT
CGCCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGGAACAGGTGCCAGTCAGCCGGATCCAAACCGATTTGA
CCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCCGAGGATCTGGCTGGACTTCCAGAGTACCTGAGCAA
GACCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGATGAAGGCTGTGCT
GAACCTTAAGGACGGAGTCAATGCCTGCATTCTGCCACTGCTGCAGATCGACAGGGACTCTGGCAATCCTCAGCC
CCTGGTAAATGCCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCACATCGCCATTGAGAAGAGGAG
TCTGCAGTGTGTGAAGCTCCTGGTGGAGAATGGGGCCAATGTGCATGCCCGGGCCTGCGGCCGCTTCTTCCAGAA
GGGCCAAGGGACTTGCTTTTATTTCGGTGAGCTACCCCTCTCTTTGGCCGCTTGCACCAAGCAGTGGGATGTGGT
AAGCTACCTCCTGGAGAACCCACACCAGCCCGCCAGCCTGCAGGCCACTGACTCCCAGGGCAACACAGTCCTGCA
TGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGCATGTATGATGGGCTCCTCCA
AGCTGGGGCCCGCCTCTGCCCTACCGTGCAGCTTGAGGACATCCGCAACCTGCAGGATCTCACGCCTCTGAAGCT
GGCCGCCAAGGAGGGCAAGATCGAGATTTTCAGGCACATCCTGCAGCGGGAGTTTTCAGGACTGAGCCACCTTTC
CCGAAAGTTCACCGAGTGGTGCTATGGGCCTGTCCGGGTGTCGCTGTATGACCTGGCTTCTGTGGACAGCTGTGA
GGAGAACTCAGTGCTGGAGATCATTGCCTTTCATTGCAAGAGCCCGCACCGACACCGAATGGTCGTTTTGGAGCC
CCTGAACAAACTGCTGCAGGCGAAATGGATCTGCTCATCCCCAAGTTCTTCTTAAACTTCCTGTGTAATCTGAT
CTACATGTTCATCTTCACCGCTGTTGCCTACCATCAGCCTACCCTGAAGAAGCAGGCCGCCCCTCACCTGAAAGC
GGAGGTTGGAAACTCCATGCTGCTGACGGGCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTGGGCCA
GCTGTGGTACTTCTGGCGGCGCCACGTGTTCATCTGGATCTCGTTCATAGACAGCTACTTTGAAATCCTCTTCCT
GTTCCAGGCCCTGCTCACAGTGGTGTCCCAGGTGCTGTGTTTCCTGGCCATCGAGTGGTACCTGCCCCTGCTTGT
GTCTGCGCTGGTGCTGGGCTGGCTGAACCTGCTTTACTATACGTGGCTTCCAGCACACAGGCATCTACAGTGT
CATGATCCAGAAGGTCATCCTGCGGGACCTGCTGCGCTTCCTTCTGATCTACTTAGTCTTCCTTTTCGGCTTCGC
TGTAGCCCTGGTGAGCCTGAGCCAGGAGGCTTGGCGCCCCGAAGCTCCTACAGGCCCCAATGCCACAGAGTCAGT
GCAGCCCATGGAGGGACAGGAGGACGAGGGCAACGGGGCCCAGTACAGGGGTATCCTGGAAGCCTCCTTGGAGCT
CTTCAAATTCACCATCGGCATGGGCGAGCTGGCCTTCCAGGAGCAGCTGCACTTCCGCGGCATGGTGCTGCTGCT
GCTGCTGGCCTACGTGCTGCTCACCTACATCCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACCGTCAA
CAGTGTCGCCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCTGTCCTGGAGATGGAGAATGGCTA
TTGGTGGTGCAGGAAGAAGCAGCGGGCAGGTGTGATGCTGACCGTTGGCACTAAGCCAGATGGCAGCCCCGATGA
GCGCTGGTGCTTCAGGGTGGAGGAGGTGAACTGGGCTTCATGGGAGCAGACGCTGCCTACGCTGTGTGAGGACCC
GTCAGGGGCAGGTGTCCCTCGAACTCTCGAGAACCCTGTCCTGGCTTCCCCTCCCAAGGAGGATGAGGATGGTGC
CTCTGAGGAAAACTATGTGCCCGTCCAGCTCCTCCAGTCCAAC**TGA**TGGCCCAGATGCAGCAGGAGGCCAGAGGA
CAGAGCAGAGGATCTTTCCAACCACATCTGCTGGCTCTGGGGTCCCAGTGAATTCTGGTGGCAAATATATATTTT
CACTAACTAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2239

MTSPSSSPVFRLETLDGGQEDGSEADRGKLDFGSGLPPMESQFQGEDRKFAPQIRVNLNYRKGTGASQPDPNRFD
RDRLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCLMKAVLNLKDGVNACILPLLQIDRDSGNPQP
LVNAQCTDDYYRGHSALHIAIEKRSLQCVKLLVENGANVHARACGRFFQKGQGTCFYFGELPLSLAACTKQWDVV
SYLLENPHQPASLQATDSQGNTVLHALVMISDNSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL
AAKEGKIEIFRHILQREFSGLSHLSRKFTEWCYGPVRVSLYDLASVDSCEENSVLEIIAFHCKSPHRHRMVVLEP
LNKLLQAKWDLLIPKFFLNFLCNLIYMFIFTAVAYHQPTLKKQAAPHLKAEVGNSMLLTGHILILLGGIYLLVGQ
LWYFWRRHVFIWISFIDSYFEILFLFQALLTVVSQVLCFLAIEWYLPLLVSALVLGWLNLLYYTRGFQHTGIYSV
MIQKVILRDLLRFLLIYLVFLFGFAVALVSLSQEAWRPEAPTGPNATESVQPMEGQEDEGNGAQYRGILEASLEL
FKFTIGMGELAFQEQLHFRGMVLLLLLAYVLLTYILLLNMLIALMSETVNSVATDSWSIWKLQKAISVLEMENGY
WWCRKKQRAGVMLTVGTKPDGSPDERWCFRVEEVNWASWEQTLPTLCEDPSGAGVPRTLENPVLASPPKEDEDGA
SEENYVPVQLLQSN

FIGURE 2240

GCAGGCTGCTGTCTCACAGAGCGAGAAGGTGTCAGGAGCAGCCCAGTTGTGTCTCTCTCTACCTCTGTGAAGG
GCGCGA**ATG**GGCAGAGCAGAACTTCTAGAAGGGAAGATGAGCACCCAGGATCCCTCAGATCTGTGGAGCAGATCC
GATGGAGAGGCTGAGCTGCTCCAGGACTTGGGGTGGTATCACGGCAACCTCACACGCCATGCTGCTGAAGCTCTT
CTCCTCTCAAATGGATGTGACGGCAGCTACCTTCTGAGGGACAGCAATGAGACCACCGGGCTGTACTCTCTCTCT
GTGAGGGCCAAAGATTCTGTTAAACACTTTCATGTTGAATATACTGGATATTCATTTAAATTTGGCTTTAATGAA
TTCTCATCTTTGAAGGATTTTGTCAAGCATTTTGCAAATCAGCCTTTGATTGGAAGCGAGACAGGCACTCTGATG
GTTCTAAAACATCCCTACCCAAGAAAAGTGGAAGAACCCTCCATTTATGAATCTGTCCGGGTTCACACAGCAATG
CAGACAGGAAGAACAGAAGATGACCTTGTGCCCACAGCACCTTCTCTGGGCACCAAAGAAGGTTACCTCACCAAA
CAGGGAGGCCTGGTCAAGACCTGGAAAACAAGATGGTTTACTCTGCACAGGAATGAACTGAAATACTTCAAAGAC
CAGATGTCACCAGAACCAATTCGGATCCTAGACCTAACAGAATGTTCAGCTGTACAATTCGATTATTCACAAGAA
AGGGTAAACTGTTTTTGTTTGGTATTTCCATTCAGGACATTTTATCTCTGTGCAAAGACCGGAGTAGAAGCTGAT
GAGTGGATCAAGATATTACGCTGGAAATTGGTCAAGGACAAAAGCTGTATTTTGTCTGCTCTCTGTATATCTCCC
GAGGAGAAGACTGATCACAAA**TAA**GAAAACAGCTCAACCAAGGGGAAGGCACGATCCGATCTCGGTCGTTCATCT
TTAAATAGATCTTTCTTGCCAAGGAATGCTCTGGCCCAGGAGCAAGGTGGAATGTTTCCCTGACGCTGTGATCTG
CAGCAGGCTTCAAATGAAAACCGACTAAGGATTTTCTTTCAAAAACAAATCAGAAGCAGATGCTGATTGGGACCC
ATATACCACGTTGCTGACTCACGTTGCTGCCCTTCCATGATGTTGCCATCTCCTTGAGAACACTGAAGCAATCAC
CATTCTGATAGAAAGTGCTTAAACCACCACTCTTAGGTCTGCTCACTCTTAGAACACACAATGGAAGAGGAAGGG
TTTTGTTTTCACTCATTGTGGTCCCCAAGCCTATTGACACTAGTTGCCTAGAGTCCCACTGTGAGTCATGGTCA
GCCTGTCTGACATCCAGGTTGTGCTATTAACCAAGAAGGAAACAGATACTTGGAGGCTTAGATGACTTCTGCAGG
ATTTATATTCAGATAGAAAACATCAAATATTTTCAGGGGAGAGGTTTTTTTTTTTAATTTTTCCCCCTTTATACA
AAAAAAAAGAACATTTCCAAAACTAAAATAGAAAATGCTTGTGGCATTTATTTTCTCTTTTTAAAAGGTTCAGAA
ATTTGGCAGGTCCTTTGCTTCTAATGACAAAACTGTGAGAGCTAGATGTCCTATGGGCAATTAGGTAGTATAATA
AAGGTAAATGAAGGTACAATTTTTAAACCATTATTTTCACCCTGTTGGGGTAAATGTTTTAAAGAGTGAGAAAAC
ATAAATTGAGAAAGGGTGATAAAGTAATAGATAACTTTTAGTTTAATAATAATTATTGTTATTATACTACTAATA
ATAGAGCACTTGTAAGCACTAAGTTATCTTTATCCAACATTTCTCCAAATGGACTGAAAGAAACTTTTCAAGGAC
AGTGTATTATAACAATCCCTTTCCCAGAATTAGTTGTATAGGGTTGGCCCAAGAGATGTAAGAAAAATCTCGCAT
TGCTCCCTAAGCACCCTGGGCCTTATTAAAGAGCAACTTCTATTTCCAGTCGGGGGAGTAACACTAAAGCTACAA
GAAATATGTAATAATGATAGGTAATAATGTGTTCCAAAGCTTTTTCAAACTAGAATAAGGAGGCAAATAGAAGAA
TGAGATACTGATGTCCACAGTTCATTGGCAGAATCTAACCCCTTCTGTTATCTTTTTTAATACTATTTTTGTTTA
GATAGAAGTTTCAAAGAAGATAAAAATGCTTGAAGAGCCTGAGAGTAAAAAGATTATGCTGCAAAGCTATGATAT
AAACTGCTCTTGCAGTCCAAAGGGATACCTGATTAAAGAAGTTTCTTATTTAAACATCTCAGACGCAAAAATTAC
ATTAAATTTTTGTATATTTCAACAACATTTTAAATGTATTTTGTTATGTTTGTATTATATAGGATAAAGCAAATG
TCAAGTTAAAATGTATTGTGTTGTTTGTAAAGTAAGAAGTTACTGGCCAGGAGCGGCGGCTCATGCCTGTAATCC
CAGGACTTTGGTAGGCCAAGACAAGCAGATCACTTGAGGTCAGGAGTTCAACATCAGCCTGGCCAACATGATGAA
ACCTTGTCTTTACTAAAAATACAAAAATTAGCTGGGCATGGTGGCAGGCGCCTGTAATCCCAGCTACTCAGGAGG
CTGAGGCAGGAGAATTGCTTGAACCCGGGAGGTGGAGGTTGCAGTGAACCAAGATCGCGGCGCTGCACTCTAGCC
TGGGTGACAGAGTCAGACTCCGTCCCAAAAAAACAAACAAACAAAACAAAACAAAAAAAACAGAAGTTACAAATG
AATACTCACGGATATGTATAGTTTTATGTTTGTTTTCTTAGAAACAAATGTGTTTCTTTGGGTGGGTAATATTGT
GTTTTACTATGTTTACCTTTTATAAAACATAACCTGTTTATTTATATTCTTTGGCTTTGTTTATTAAAAAGCATG
ATTTTGCTGTGCATGTACCATTTTG

FIGURE 2241

MGRAELLEGKMSTQDPSDLWSRSDGEAELLQDLGWYHGNLTRHAAEALLLSNGCDGSYLLRDSNETTGLYSLSVR
AKDSVKHFHVEYTGYSFKFGFNEFSSLKDFVKHFANQPLIGSETGTLMVLKHPYPRKVEEPSIYESVRVHTAMQT
GRTEDDLVPTAPSLGTKEGYLTKQGGLVKTWKTRWFTLHRNELKYFKDQMSPEPIRILDLTECSAVQFDYSQERV
NCFCLVFPFRTFYLCAKTGVEADEWIKILRWKLVKDKSCILSALCISPEEKTDHK

FIGURE 2242A

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AAGGAGAGAACTTTTCCTGCACAAGGAACGCCTCGTGGGGAGACCCAAGGCAGGAGCGGTCCGGAGCCGGCTGCG
GCGTGTGCGGCCGGCCTTGGGACAGCGATCGCCGCGGGTGGCAACAGAGAGCCCCAAGCAAAAGTGGGAGCAGGA
GCTTGGAGGTGAGCACAGGAAGCCCCACTTGAGGCTTTTACGCAGCCTCTAGTCTCTGTTTCTTCTGGAATAGGC
AAGCGTCCTTTCAACTCTAAGAGACCAGCAGAGGCCACTGTCCCTTAAGACTGCCGGAGTCCTCACCACTTCTCC
AGGATTCCAGAGGAGACTGTGGCG**ATG**GTGAATGAAGGTCCCAACCAGGAAGAGAGCGATGACACCCCTGCGCCG
GAGTCCGCACTCCAAGCGGACCCCAGCGTCTCGGTCCATCCCAGCGTCTCGGTCCATCCCAGCGTCTCCATCAAC
CCCAGCGTCTCTGTCCACCCCAGCAGTTCGGCCCACCCCAGTGCCTTAGCCCAACCCAGTGGCTTGGCTCACCCC
AGTAGCTCGGGCCCTGAGGACCTCAGCGTGATCAAGGTGAGCAGGCGCCGTTGGGCCGTGGTCCTGGTGTTTAGC
TGCTACTCCATGTGCAACTCCTTTCAGTGGATCCAGTACGGCTCCATCAATAACATCTTCATGCACTTCTACGGT
GTCAGTGCCTTTGCCATTGACTGGCTGTCCATGTGCTACATGCTGACTTACATCCCTCTGCTCCTGCCAGTGGCT
TGGCTGCTGGAGAAGTTCGGCCTGCGCACCATTGCTCTCACTGGCTCGGCTCTCAACTGCCTGGGGGCCTGGGTG
AAGCTGGGCAGCCTGAAGCCGCATCTCTTTCCGGTCACCGTAGTGGGCCAGCTCATCTGCTCTGTGGCCCAGGTT
TTCATCCTGGGCATGCCCTCCCGCATCGCTTCCGTCTGGTTCGGGGCTAATGAGGTTTCAACAGCCTGCTCGGTG
GCTGTCTTTGGCAATCAGCTTGGAATTGCGATTGGGTTCTTGGTCCCTCCTGTTTTGGTACCCAACATTGAAGAC
CGGGACGAGCTTGCCTACCACATCAGCATCATGTTCTATATAATAGGAGGTGTGTGGCCACTCTCCTCCTCATCCTT
GTCATCATTGTGTTCAAGGAGAAACCTAAATATCCCCCCAGCAGGGCCCAATCCCTGAGCTATGCCTTGACCTCT
CCTGATGCCTCATACTTAGGTTCCATCGCCCGGCTCTTCAAAAATCTCAACTTTGTGCTGCTTGTCATCACCTAT
GGTCTGAATGCTGGTGCTTTTTATGCCTTGTCCACTCTTCTGAATCGCATGGTGATCTGGCACTACCCGGGGGGAA
GAAGTGAATGCTGGAAGAATTGGCCTGACGATCGTCATTGCAGGAATGCTTGGGGCTGTGATCTCAGGAATCTGG
CTGGATAGGTCCAAAACCTACAAAGAGACAACCCTGGTAGTCTATATCATGACACTGGTGGGCATGGTGGTGTAC
ACGTTTACCTTGAACCTGGGACACCTGTGGGTAGTGTTCATCACTGCTGGCACAATGGGCTTCTTTATGACTGGC
TATCTCCCACTGGGATTTGAGTTTGCTGTGGAGCTCACGTACCCAGAATCAGAAGGCATCTCCTTCGGCCTCCTC
AACATATCTGCACAGGTATTTGGGATCATCTTTACCATCTCCCAGGGCCAGATTATTGACAACTATGGAACCAAG
CCTGGGAACATCTTCCTGTGTGTGTTCCTTACTCTTGGAGCAGCCCTCACTGCATTCATTAAGGCAGATCTCCGG
AGACAGAAAGCAAACAAAGAAACTCTTGAGAACAAACTCCAAGAGGAGGAGGAGGAGAGCAACACCAGCAAAGTG
CCCACTGCTGTGTCAGAGGATCATCTC**TGA**GAGGAAGGTGGTGACAACTCAGGGAACACGAACACCCCACCTTTT
CCTTCAGCACAGCTCTCACCGCCAGCACAAAGGGCTTCGCTAGAGATGTTTTTGGAGGGAATCAGTGGGACTATT
TGTGGCATGGATGGCCTATTCCTCCTAGAACCCACGTAAGAGCTTGGATGATTTAGTTGGAGAAAATTGCACCTA
TCACCAAATGCAAATTTGATTCCCACCTCCACCCCCTTTTAGGTTATGGGAGTTGGTGTTGGGACAGGGTGGCAG
AGAATATTGGAGTCAATCCTAGCTTGGTCTCTTGCCTTCCCTCTTTTCCTCCATCCATCGTGGACAATGCCTGCA
AAATTTTCACAGGAAGAAAGCCTATTCAGGATATTAACTTGAAATTTCCAGTGTCCTAAGAGCCTCTCATGAAGC
CCAGTTCTAATAAGTGGCAAGCTGCTCTGCCGGGGTCATCTCCTGGGTCATCGGACTGATTGCTCAAGTTCTGCA
GGAGAGGAAGCACCATTAGAACAACTCCATCAGAACAGCTCCACCGGGACTTGTGGGCCTAAATTTTCCTGGCCT
AACGGGTCTGTCTCCAAACCCTCTTTCCTAAGAGCTGAGCAAACCAACCATAATAAACTTGACAAAAGACTTTGT
TGTGGCCATGACAGAGATACCGACTCAGGAGGGCTACCTACCTAGGTGTGATCATGCTGGGGGCTACCTTCTGAG
TATATTTGTGAAAGCACATATTTGGGAACTCTGGTAGCTTGAGTTGGGAATGGGAAGGTTCTTTTTTACAGAAGT
ACTTCCCCAGGGACTTCTGTGTGTCACAGTCACCTCTGATGCCTTTATCTTGATGTTGCATTGGGAATCTCAGCC
ATCAGCCCAAGTGCTTGTTTTATTCCAAGGCAGGGTAATCCCCGTCAACTTACTCTAACCTTTGCTGAAAACTAA
TCTTGATTCATTCTACTCTGAAAATCCAAAGGTGCTTCTGAGAGATAAGAGGGAAGGGGTAGAAGGAAAGGTGCC
CCTTGAAATGGGAATTGAGCCTGTTAGAATTAAAAGCTTATCTCACCTCTGCTGGGGACAGTATTTGCACCACCA
ACCCCTCTCCTCACCTGCTTTGAGCGATAATCTTTATCAGATATTCTAAACTTAAAGGGATTCCCTTTAAACCAA
CTCAAGCTGATCTTTCCTATCTAGCCTGCTGTTTGGCTGTACTCATGGGCTTTGGTAATATCTCCTAAAAATGAG
GTTTTGGTAATTTTTCCTATGCATTGGGCAACTGTGATCGTGACCACTGTGCTGTCTTGCTCCAGCCACTGCCCT
GGCCTCAGCATATCAGGGCAGCCTGTGCTGGCTGCAATACTGTGGTGCTTGGGCCCACTGCCTGAGAGGAGCCAGG
TTTGTGTGTGTCTGCATGTGTGTGTGTGTGTGTTTGTACAGATTCAAGCAATGGATGCAAGGAACATGCTGTATG
TAATAGAAGAAAGAAGTCCACGTTTTCGGCAGAAGTAGTGAGTCAGTGTGGAAGAGAGGTGAGGGTGTGCTTTAC
TTTTTGATAAAGAGAAAGATGTTTACTCATAAACCCTTCAAAAGGTATTAACAAATGTTTACCAAACCTATTGCT
TTATTTTAAAAACATAATTTGTGTTTTCTATTTGTAAGATCTGACATTTCGAGGCCAATAAAAACTTCTCAGAAA
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2526/2825
FIGURE 2242B

AAAAAAAAAAAAAA

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FIGURE 2243

MVNEGPNQEESDDTPAPESALQADPSVSVHPSVSVHPSVSINPSVSVHPSSSAHPSALAQPSGLAHPSSSGPEDL
SVIKVSRRRWAVVLVFSCYSMCNSFQWIQYGSINNIFMHFYGVSAFAIDWLSMCYMLTYIPLLLPVAWLLEKFGL
RTIALTGSALNCLGAWVKLGSLKPHLFPVTVVGQLICSVAQVFILGMPSRIASVWFGANEVSTACSVAVFGNQLG
IAIGFLVPPVLVPNIEDRDELAYHISIMFYIIGGVATLLLILVIIVFKEKPKYPPSRAQSLSYALTSPDASYLGS
IARLFKNLNFVLLVITYGLNAGAFYALSTLLNRMVIWHYPGEEVNAGRIGLTIVIAGMLGAVISGIWLDRSKTYK
ETTLVVYIMTLVGMVVYTFTLNLGHLWVVFITAGTMGFFMTGYLPLGFEFAVELTYPESEGISFGLLNISAQVFG
IIFTISQGQIIDNYGTKPGNIFLCVFLTLGAALTAFIKADLRRQKANKETLENKLQEEEEESNTSKVPTAVSEDH
L

2528/2825
FIGURE 2244

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ATGAGTGTTGGACGTCGAAGAATAAAGTTGTTGTTGGGTATCCTGATGATGGCAAATGTCTTCATTTATTTTATT
ATGGAAGTCTCCAAAAGCAGTAGCCAAGAAAAAAATGGAAAAGGGGAAGTAATAATACCCAAAGAGAAGTTCTGG
AAGATATCTACCCCTCCCGAGGCATACTGGAACCGAGAGCAAGAGAAGCTGAACCGGCAGTACAACCCCATCCTG
AGCATGCTGACCAACCAGACGGGGGAGGCGGGCAGGCTCTCCAATATAAGCCATCTGAACTACTGCGAACCTGAC
CTGAGGGTCACGTCGGTGGTTACGGGTTTTAACAACTTGCCGGACAGATTTAAAGACTTTCTGCTGTATTTGAGA
TGCCGCAATTATTCACTGCTTATAGATCAGCCGGATAAGTGTGCAAAGAAACCTTTCTTGTTGCTGGCGATTAAG
TCCCTCACTCCACATTTTGCCAGAAGGCAAGCAATCCGGGAATCCTGGGGCCAAGAAAGCAACGCAGGGAACCAA
ACGGTGGTGCGAGTCTTCCTGCTGGGCCAGACACCCCAGAGGACAACCACCCCGACCTTTCAGATATGCTGAAA
TTTGAGAGTGAGAAGCACCAAGACATTCTTATGTGGAACTACAGAGACACTTTCTTCAACTTGTCTCTGAAGGAA
GTGCTGTTTCTCAGGTGGGTAAGTACTTCCTGCCCAGCACTGAGTTTGTTTTCAAGGGCGATGACGATGTTTTT
GTGAACACCCATCACATCCTGAATTACTTGAATAGTTTATCCAAGACCAAAGCCAAAGATCTCTTCATAGGTGAT
GTGATCCACAATGCTGGACCTCATCGGGATAAGAAGCTGAAGTACTACATCCCAGAAGTTGTTTACTCTGGCCTC
TACCCACCCTATGCAGGGGGAGGGGGGTTCCTCTACTCCGGCCACCTGGCCCTGAGGCTGTACCATATCACTGAC
CAGGTCCATCTCTACCCCATTGATGACGTTTATACTGGAATGTGCCTTCAGAAACTCGGCCTCGTTCCAGAGAAA
CACAAAGGCTTCAGGACATTTGATATCGAGGAGAAAAACAAAAATAACATCTGCTCCTATGTAGATCTGATGTTA
GTACATAGTAGAAAACCTCAAGAGATGATTGATATTTGGTCTCAGTTGCAGAGTGCTCATTTAAAATGCTAA
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FIGURE 2245

MSVGRRRIKLLLGILMMANVFIYFIMEVSKSSSQEKNGKGEVIIPKEKFWKISTPPEAYWNREQEKLNRQYNPIL
SMLTNQTGEAGRLSNISHLNYCEPDLRVTSVVTGFNNLPDRFKDFLLYLRCRNYSLLIDQPDKCAKKPFLLLAIK
SLTPHFARRQAIRESWGQESNAGNQTVVRVFLLGQTPPEDNHPDLSDMLKFESEKHQDILMWNYRDTFFNLSLKE
VLFLRWVSTSCPDTEFVFKGDDDVFVNTHHILNYLNSLSKTKAKDLFIGDVIHNAGPHRDKKLKYYIPEVVYSGL
YPPYAGGGGFLYSGHLALRLYHITDQVHLYPIDDVYTGMCLQKLGLVPEKHKGFRTFDIEEKNKNNICSYVDLML
VHSRKPQEMIDIWSQLQSAHLKC

FIGURE 2246A

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GTTTGAGGCCGGCCAGTCGTGACTGGGCGGCAATGAGGTCAGTGACTGCCGGGAGTCCTGCAGGGGCGGGGCGGC
GCCAAGCGCAGGGAGCCCGGCTGAGTGGCAGCCYAGATTGAAGATGGATACGTGACAATCCCAGGGACCGCTGCA
CTGACTTCATTTCCTTAGACAAGACACAGTGTAGGGCCCGGCCCGYGTTGGCCCCAGGACTCCTTTGGAATATAG
CTGTGGACAATGAATCCTGCGAGCGATGGGGGCACATCAGAGAGCATTTTTGACCTGGACTATGCATCCTGGGGG
ATCCGCTCCACGCTGATGGTCGCYGGCTTTGTCTTCTACTTGGGCGTCTTTGTGGTCTGCCACCAGCTGTCCTCT
TCCCTGAATGCCACTTACCGTTCTTTGGTGGCCAGAGAGAAGGTCTTCTGGGACCTGGCGGCCACGCGTGCAGTC
TTTGGTGTTCAGAGCACAGCCGCAGGCCTGTGGGCTCTGCTGGGGGACCCTGTGCTGCATGCCGACAAGGCGCGT
GGCCAGCAGAACTGGTGCTGGTTTCACATCACGACAGCAACGGGATTCTTTTGCTTTGAAAATGTTGCAGTCCAC
CTGTCCAACTTGATCTTCCGGACATTTGACTTGTTTCTGGTTATCCACCATCTCTTTGCCTTTCTTGGGTTTCTT
GGCTGCTTGGTCAATCTCCAAGTTGGCCACTATCTAGCTATGACCACGTTGCTCCTGGAGATGAGTACGCCCTTT
ACCTGCGTTTCCTGGATGCTCTTAAAGGCGGGCTGGTCCGAGTCTCTGTTTTGGAAGCTCAACCAGTGGCTGATG
ATTCACATGTTTCACTGCCGCATGGTTCTAACCTACCACATGTGGTGGGTGTGTTTCTGGCACTGGGACGGCCTG
GTCAGCAACCTGTATCTGCCTCATTTGACACTGTTCCTTGTCGGACTGGCTCTGCTTACGCTAATCATTAATCCA
TATTGGACCCATAAGAAGACTCAGCAGCTTCTCAATCCGGTGGACTGGAACTTCGCACAGCCAGAAGCCAAGAGC
AGGCCAGAAGGCAACGGGCAGCTGCTGCGGAAGAAGAGGCCATAGCTGCTCCAGCCGGGGCTCCGGGGCGGCAGC
AGAGCTGGCACACCGATTCTGGGAAGCCCCGCGAATGATGGCTTTTGAATTAATGAGGCAGTGAATGTTTTGTGT
TTACTTCTAAGGGAAATACTAACTTTCTTTCGCATTAGTATTAATTTTGAAGTAGCTACAAAGTATTTTTAAGAA
ATTATAATTTATGACTGTCTGGCAGGCTCTGTCAGTTTAGCCGCGCCGGACCGTGTCAAGCATCTAGGAGAGGA
GTCCATGGTGTCCAGGCATCGGGGCGTCACACCTGTTGAGGAGTGGGGTGGCTTTGAATGCTGGAAATGGCTTCA
TAGTGAAGTGCCTCCCACAGGGCGGGTGGGTCAGCGTTGACTCTTTCCARCTGCACACTCATATGCCGTGTGTCT
TATTCAGAAGTCACATTCTTTTCAGTTGGAGAGAATTGGGCTAAGATAGAAAATAACATGATTTGTTCCTTATTA
AAGTTTCCCAGCGTATGAAATTCTAAGCTGGGTGGGGTGGCTCACGCCCGACGTAATCCCAGCACGTTGGGAGGC
CGAGGCAGGTGGATCACTTGAGGCCAGGAGTTCGAGACCAGCCTGGTCAAGATGGTGAAACCCCATCTCTACTAA
AATTACAAAAATTAGCCGGGTGTCGTGGCACACACCTGTAATCCCAGCTATTGGGAGGCCAAGGCAGGAGAATT
GCCTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTGAGATCGCACCACTGCACTCCAGCACTCCAGCCTGGGTGAC
AGAGCAAGACTCTCTCTCATAAAAAAAAAAAAAAAAAAAAAATTCTAGACCGAAGTGTACGGCAGTGCCATCTGGTG
GCAAGTGGTACAAAGACAACGCTGAGGGGTAGTGACTCCTGTAGCAGCAGAGACGCCTTGGAGTTTAACCCCCAC
CAACCAGAGCGTGGGCTGGTAAAGATGAAATCTTGCAAGTTTTTTTTTTTTTAAATCATGGTACCTGTTTTAAA
ATGAGAAGTTATTATTCATACTGTGTTGCTCATTTGACAAAATAAGGTAAGGATTTCATAATCAGGTTGTCTGGG
TTTCAGAGCTGTTTTTAATTGACTGAGTTACCTACAGGCACCCAATCTAGACCCTAATTCTGTGGTTGGTGTTCC
TCTGTAGATTTCAAGACAAGTAGTGATGTCATTTTCTCCCTGAGCTGTAGGGTGGACCTGGACCCCTCAGAGATG
CTCGACTGCAGGGTCCTGGGGTCCCTAGAGTGGTCCTGCAGCAGCCCCTGGCAATGAGCTGCCTGATGATGAGTC
CCAAGGTACATTGTTCTACTGTTTTATACCCAGGTAGAAGTTACACAGCAATTTAGCAATGTTGTTAACAGACAT
ACAGAATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGTGTTTTGATATAAACGTGCAATTAAAATTCAA
AGTTTATTTTTTATCACAAGCACCTTTGAAATGTACGTGGAAAACGTCGGCTGCTCGTGAGAATCATGTGTGACT
TACGTTCCTTATGTTTTATGGAACTCTCGGAACAGTGTTTTGTTTTTGTTTAGTTTTTGTTTTCGTTTTTTTGRG
ACGGAGCCTGGCTTTGGCTCCCAGGCTGGAGTCCAGTGGTGTGATCTCGGCTCACTGCAACCTCCACCTCCCGGG
TTCCAGGGATTCTCCTGCCTCACCCTTTCAAGTAGCTGGGATTRCAGGTACCTCTACCATGCCTGGCTGATTTTT
TGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCTGACTCCTGACTAAAAGTGATCTGCC
CACCTCGGCCTCCCAAAGTTCTGGGATTACGGGCGTGAGCCACTTCACCCGGCCCGGAGCGGTGTATTTTGATTG
CTGGTGCTTTAACTATATTGACCAAGGTGTATAGTAACCTATTTATCACATTTTACGAAGCAATTTTAATCTTAA
ACACATCCAGCAAATGGTGTCCCTGCTGAAACTTTTAACTGGAAACCTCACACCTGGCAGGCAGCACTCTCTGCA
GCCGTGCCCTTGTGGAGTCAGCAGGAGCTGGTGTTTTTCAGCCAGACAGAGGCATAATAAAGTGACTGATGTTTA
CRGAACCCAAATGATGTCTTCCTCTCTCTCAAAATAAACTAACCTATTCATATTGCTGTGAATGCTTTATCTTGG
AGATAGAAAATATAATGATAAATTCATCATGTGTTCAGAATTCGATTTGGAGTTGGAAGTGGACAGCCTAATTTT
TATCTCACCTCCACTAGGACTTTGACCTTCCCAGGGGTCCACACTTTACCTCCTGTATCTTCATACGCGTGTGTG
GATGCATAGAGATGGAGGTGCTGTAGAGAAGCACAGGCTCACCCGCTCCGTCCAGTGTCACCCACACATTGGTCC
GGGGACCCCTCAGTGCAGAGCCTGAAGTTGGGGGTTTAGGGGTGGAAAAGGCTTCGTGAAATGTTAATGATGCGT
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FIGURE 2246B

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ACACCTTCCAGATGGCACAGCACTTTCCCATGGTCCTCRCTGGCCTCAGTCTCCCTGACCGGCAGTGTGAGGGGA
TGTAGCTATAGTGGAGCATGGTACAAGCGACATTCATGAGCTCTGACTTCTTGGTGCCAGGTTGGTGTGAGCCTG
GGCCCGGCCCACTCAGCGGCCCACATTGGCCAGCATTCAGCTGCACGTGTGTGCTGCGTGCTTCACATCCTCTAT
TGAGAGTTACAGCAAGTGTTAAACGAGGTGAGTTYACATAACAGGAATTCTGGAACTGCTTGAAAACTAGGACGA
TTGGGCAATATCGGCCTTAACTCCACCTGATGGCAGGTGACCCGGATAGAAAATGGCCCTGCGTTTAGCCAGGAT
GTGGCTCTCCAGCTTGGCTTCAGTGTGATCACTTGTCAGTGCGCTTTCTCTTTCGATAGTGAAATCCTTCTCTAT
ACCTATGTTTTGTTTTGTTGCTCGACGTTGGGAAACAGAATGGGCCAGGGAGGTTGAGTGACTGAAGACCAAGGG
TTGGTGCAGCCTCCTCGCCGCGCTGCGGGGKCTGGGCCGCACAGGCTTCTGCCCTTCTCGGTGTCCAGGCTCCTT
GGGTGATGCTGGAGTTGTCATGGCYGCAGTTCAGTGTGAGATTTTTTACCAGGTATTGCGCTTAAGGGACATGAT
TTTCCATTTTCTTCGCCCGGACAACTTGAATGAAATGGGCACTGTTGATTCCACTTCTGTCGAGGAGCTTCGGGG
CTCAGAGAGGTGATGACGTGCCCAAGGTGACGCAACTCGTGAACAGCCGTGCCTGCCTTGGGCGCAGCTCCGGCG
CCAGAGCTGGGCTCTTCAACACGGCATTTAGCGCAGAAAGTCGTGGTTCAGGCAGTATGGGCCGCTGTGACAAAA
CACCTAAGACTGGGTAGTTTATAAAGAACAGACATTCAGGCCAGGCACGGTGACTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCGAGGCGCGTGGATCATTTGAGGTCAGGAGTTTGAAACCAGCCTGGCCAACATGGTGAAACCCCA
TCTCTACTAAAAAACAAAACTAGCTGGGGGTGGTGGTGTATGCCTGTGGTCCCAGCTACTTGGGAGGCTAAGGT
AGAAGAATTGCTTGAACCTGGGAGGCAGAGATTGCAGTGAGCCGAGATCACGCCATTGCACTCCAGCCTGGGTGA
CACAGTGAGACTCCATCKCAAAAA
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FIGURE 2247

MNPASDGGTSESIFDLDYASWGIRSTLMVAGFVFYLGVFVVCHQLSSSLNATYRSLVAREKVFWDLAATRAVFGV
QSTAAGLWALLGDPVLHADKARGQQNWCWFHITTATGFFCFENVAVHLSNLIFRTFDLFLVIHHLFAFLGFLGCL
VNLQVGHYLAMTTLLLEMSTPFTCVSWMLLKAGWSESLFWKLNQWLMIHMFHCRMVLTYHMWWVCFWHWDGLVSN
LYLPHLTLFLVGLALLTLIINPYWTHKKTQQLLNPVDWNFAQPEAKSRPEGNGQLLRKKRP

FIGURE 2248

CTACTGCCATGGAACTTCTTTATCACTGCCAAGGAGTACTGG**ATG**TTCAAACTCCGCAACTCCTCCAGCCCAGCC
ACCGGGGAGGACCCTGAGGGCTCAGACATCCTGAACTACTTTGAGAGCTACCTTGCCGTTGCCTCCGCCGTGCCC
TCCATGCTGTGCCTGGTGGCCAACTTCCTGCTTGTCAACAGGGTTGCAGTCCACATCCGTGTCCTGGCCTCACTG
ACGGTCATCCTGGCCATCTTCATGGTGATAACTGCACTGGTGAAGGTGGACACTTCCTCCTGGACCCGTGGCTTT
TTTGCGGTCACCATTGTCTGCATGGTGATCCTCAGCGGTGCCTCCACTGTCTTCAGCAGCAGCATCTACGGCATG
ACCGGCTCCTTTCCTATGAGGAACTCCCAGGCACTGATATCAGGAGGAGCCATGGGCGGGACGGTCAGCGCCGTG
GCCTCATTGGTGGACTTGGCTGCATCCAGTGATGTGAGGAACAGCGCCCTGGCCTTCTTCCTGACGGCCACCATC
TTCCTCGTGCTCTGCATGGGACTCTACCTGCTGCTGTCCAGGCTGGAGTATGCCAGGTACTACATGAGGCCTGTT
CTTGCGGCCCATGTGTTTTCTGGTGAAGAGGAGCTTCCCCAGGACTCCCTCAGTGCCCCTTCGGTGGCCTCCAGA
TTCATTGATTCCCACACACCCCCTCTCCGCCCCATCCTGAAGAAGACGGCCAGCCTGGGCTTCTGTGTCACCTAC
GTCTTCTTCATCACCAGCCTCATCTACCCCGCCGTCTGCACCAACATCGAGTCCCTCAACAAGGGCTCGGGCTCA
CTGTGGACCACCAAGTTTTTCATCCCCCTCACTACCTTCCTCCTGTACAACTTTGCTGACCTATGTGGCCGGCAG
CTCACCGCCTGGATCCGGGTGCCAGGGCCCAATAGCAAGGCGCTCCCAGGGTTCGTGCTCCTCCGGACCTGCCTC
ATCCCCCTCTTCGTGCTCTGTAACTACCAGCCCCGCGTCCACCTGAAGACTGTGGTCTTCCAGTCCGATGTGTAC
CCCGCACTCCTCAGCTCCCTGCTGGGGCTCAGCAACGGCTACCTCAGCACCCTGGCCCTCCTCTACGGGCCTAAG
ATTGTGCCCAGGGAGCTGGCTGAGGCCACGGGAGTGGTGATGTCCTTTTATGTGTGCTTGGGCTTAACACTGGGC
TCAGCCTGCTCTACCCTCCTGGTGCACCTCATC**TAG**AAGGGAGGACACAAGGACATTGGTGCTTCAGAGCCTTTG
AAGATGAGAAGAGAGTGCAGGAGGGCTGGGGGCCATGGAGGAAAGGCCTAAAGTTTCACTTGGGGACAGAGAGCA
GAGCACACTCGGGCCTCATCCCTCCCAAGATGCCAGTGAGCCACGTCCATGCCCATTCCGTGCAAGGCAGATATT
CCAGTCATATTAACAGAACACTCCTGAGACAGTTGAAGAAGAAATAGCACAAATCAGGGGTACTCCCTTCACAGC
TGATGGTTAACATTCCACCTTCTTTCTAGCCCTTCAAAGATGCTGCCAGTGTTCGCCCTAGAGTTATTACAAAGC
CAGTGCCAAAACCCAGCCATGGGCTCTTTGCAACCTCCCAGCTGCGCTCATTCCAGCTGACAGCGAGATGCAAGC
AAATGCTCAGCTCTCCTTACCCTGAAGGGGTCTCCCTGGAATGGAAGTCCCCTGGCATGGTCAGTCCTCAGGCCC
AAGGCTCAAGTGTGCACAGACCCCTGTGTTCTGTGGGTGAACAACTGCCCACTAACCAGACTGGAAAACCCAGAA
AGATGGGCCTTCCATGAATGCTTCATCCCAGAGGGACCAGAGGGCCTCCCTGTGCAAGGGATCAAGCATGTCTGG
CCTGGGTTTTCAAAAAAAGAGGGATCCTCATGACCTGGTGGTCTATGGCCTGGGTCAAGATGAGGGTCTTTCAGT
GTTCCTGTTTACAACATGTCAAAGCCATTGGTTCAAGGGCGTAATAAATACTTGCGTATTC

2534/2825
FIGURE 2249

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MFKLRNSSSPATGEDPEGSDILNYFESYLAVASAVPSMLCLVANFLLVNRVAVHIRVLASLTVILAIFMVITALV
KVDTSSWTRGFFAVTIVCMVILSGASTVFSSSIYGMTGSFPMRNSQALISGGAMGGTVSAVASLVDLAASSDVRN
SALAFFLTATIFLVLCMGLYLLLSRLEYARYYMRPVLAAHVFSGEEELPQDSLSAPSVASRFIDSHTPPLRPILK
KTASLGFCVTYVFFITSLIYPAVCTNIESLNKGSGSLWTTKFFIPLTTFLLYNFADLCGRQLTAWIRVPGPNSKA
LPGFVLLRTCLIPLFVLCNYQPRVHLKTVVFQSDVYPALLSSLLGLSNGYLSTLALLYGPKIVPRELAEATGVVM
SFYVCLGLTLGSACSTLLVHLI
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FIGURE 2250

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GCCCGCCCGCGCCCCGACCAGCCCGGCCTCGGGCAGCCACTCACCGGTGTCCCCGTCCGCGTCCTTCCTCCCCGG
GTCCCGGCCATGGCGCTGAGTGAACCCATCCTGCCGTCCTTCTCCACTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCCATGGGGCTGGATGGCCTGGGCGCCGAGGCCGCCCCGGAGCCGCCGCCGCCGCCCCGCCGCCTGCG
TTCTATTACCCCGAACCCGGCGCGCCCCCGCCCTACAGCGCCCCCGCGGGTGGCCTGGTGTCTGAGCTGCTGCGA
CCCGAGCTGGATGCGCCGCTGGGGCCCGCACTGCACGGCCGCTTTCTGCTGGCGCCGCCCGGCCGCCTGGTCAAG
GCCGAGCCCCCTGAAGCGGACGGCGGCGGCGGCTACGGCTGCGCCCCCGGGCTGACCCGTGGACCGCGCGGCCTC
AAGCGCGAGGGCGCCCCGGGCCCGGCGGCTTCGTGCATGCGAGGTCCCGGGGGCCGCCCCCCGCCGCCGCCCGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCCTGCCCGCGCCCGGTCCGCGCGCCTCCTTCCCGCCGCCTTTC
GGTGGCCCTGGTTTCGGCGCGCCCGGGCCCGGCCTGCATTACGCGCCGCCTGCGCCCCCAGCCTTCGGTCTCTTC
GACGACGCGGCCGCCGCCGCGGCAGCCCTGGGCCTGGCGCCCCCCGCCGCCCGCGGTCTCCTCACGCCGCCTGCG
TCCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCCGCCGCTCTTGGCCCCGCAAACGCACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGCGCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATGTAGCCGGGACGCCCCCGCCCACCTGCGGCGGGCCGTGGCGGGTCCCACGCG
CCGGGCGCGGCCCCCTCCCAAACTGTGACTGGTATTTATTGGACCCAGAGAACCGGGCCGGGCACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGACGCCACCACCCCAGCCCCCGTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAAATGGTGCAATAATTTAAGTGGCATCTTCTCTCCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGTGATGCCTTGTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTGACTGACAAATATTGTATTACTGTACATAGAGAGACAGGTGGGCATTTTTG
GGCTACCTGGTTCGTTTTTATAAGATTTTGCTGGGTTGGTTTTTTTTTAATTAAAAAGTTTTGCATCTTTT
```

FIGURE 2251

MALSEPILPSFSTFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEAAPEPPPPPPPPAFYY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGRLVKAEPPEADGGGGYGCAPGLTRGPRGLKRE
GAPGPAASCMRGPGGRPPPPPDTPPLSPDGPARLPAPGPRASFPPPFGGPGFGAPGPGLHYAPPAPPAFGLFDDA
AAAAAALGLAPPAARGLLTPPASPLELLEAKPKRGRRSWPRKRTATHTCSYAGCGKTYTKSSHLKAHLRTHTGEK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

FIGURE 2252

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GGACCACAGCTCCTCCCGTGCATCCACTCGGCCTGGGAGGTTCTGGATTTTGGCTGTCGAGGGAGTTTGCCTGCC
TCTCCAGAGAAAGATGGTCATGAGGCCCCTGTGGAGTCTGCTTCTCTGGGAAGCCCTACTTCCCATTACAGTTAC
TGGTGCCCAAGTGCTGAGCAAAGTCGGGGGCTCGGTGCTGCTGGTGGCAGCGCGTCCCCCTGGCTTCCAAGTCCG
TGAGGCTATCTGGCGATCTCTCTGGCCTTCAGAAGAGCTCCTGGCCACGTTTTTCCGAGGCTCCCTGGAGACTCT
GTACCATTCCCGCTTCCTGGGCCGAGCCCAGCTACACAGCAACCTCAGCCTGGAGCTCGGGCCGCTGGAGTCTGG
AGACAGCGGCAACTTCTCCGTGTTGATGGTGGACACAAGGGGCCAGCCCTGGACCCAGACCCTCCAGCTCAAGGT
GTACGATGCAGTGCCCAGGCCCGTGGTACAAGTGTTCATTGCTGTAGAAAGGGATGCTCAGCCCTCCAAGACCTG
CCAGGTTTTCTTGTCCTGTTGGGCCCCCAACATCAGCGAAATAACCTATAGCTGGCGACGGGAGACAACCATGGA
CTTTGGTATGGAACCACACAGCCTCTTCACAGACGGACAGGTGCTGAGCATTTCCCTGGGACCAGGAGACAGAGA
TGTGGCCTATTCCTGCATTGTCTCCAACCCTGTCAGCTGGGACTTGGCCACAGTCACGCCCTGGGATAGCTGTCA
TCATGAGGCAGCACCAGGGAAGGCCTCCTACAAAGATGTGCTGCTGGTGGTGGTGCCTGTCTCGCTGCTCCTGAT
GCTGGTTACTCTCTTCTCTGCCTGGCACTGGTGCCCCTGCTCAGGGAAAAAGAAAAAGGATGTCCATGCTGACAG
AGTGGGTCCAGAGACAGAGAACCCCCTTGTGCAGGATCTGCCATAAAGGACAATATGAACTGATGCCTGGACTAT
CAGTAACCCCACTGCACAGGCACACGATGCTCTGGGACATAACTGGTGCCTGGAAATCACCATGGTCCTCATATC
TCCCATGGGAATCCTGTCCTGCCTCGAAGGAGCAGCCTGGGCAGCCATCACACCACGAGGACAGGAAGCACCAGC
ACGTTTCACACCTCCCCCTTCCCTCTCCCATCTTCTCATATCCTGGCTCTTCTCTGGGCAAGATGAGCCAAGCAG
AACATTCCATCCAGGACACTGGAAGTTCTCCAGGATCCAGATCCATGGGGACATTAATAGTCCAAGGCATTCCCT
CCCCCACCACTATTCATAAAGTATTAACCAACTGGCACCAAGGAATTGCCTCCAGCCTGAGTCCTAGGCTCTAAA
AGATATTACATATTTGAACTAATAGAGGAACTCTGAGTCACCCATGCCAGCATCAGCTTCAGCCCCAGACCCTGC
AGTTTGAGATCTGATGCTTCCTGAGGGCCAAGGCATTGCTGTAAGAAAAGGTCTAGAAATAGGTGAAAGTGAGAG
GTGGGGGACAGGGGTTTCTCTTTCTGGCCTAAGGACTTTCAGGTAATCAGAGTTCATGGGCCCTCAAAGGTAAAT
TGCAGTTGTAGACACCGAGGATGGTTGACAACCCATGGTTGAGATGGGCACCGTTTTGCAGGAAACACCATATTA
ATAGACATCCTCACCATCTCCATCCGCTCTCACGCCTCCTGCAGGATCTGGGAGTGAGGGTGGAGAGTCTTTCCT
CACGCTCCAGCACAGTGGCCAGGAAAAGAAATACTGAATTTGCCCCAGCCAACAGGACGTTCTTGCACAACTTCA
AGAAAAGCAGCTCAGCTCAGGATGAGTCTTCCTGCCTGAAACTGAGAGAGTGAAGAACCATAAAACGCTATGCAG
AAGGAACATTATGGAGAGAAAGGGTACTGAGGCACTCTAGAATCTGCCACATTCATTTTCAAATGCAAATGCAGA
AGACTTACCTTAGTTCAAGGGGAGGGGACAAAGACCCCACAGCCCAACAGCAGGACTGTAGAGGTCACTCTGACT
CCATCAAACTTTTTATTGTGGCCATCTTAGGAAAATACATTCTGCCCCTGAATGATTCTGTCTAGAAAAGCTCTG
GAGTATTGATCACTACTGGAAAAAACACTTAAGGAGCTAAACTTACCTTCGGGGATTATTAGCTGATAAGGTTCAC
AGTTTCTCTCACCCAGGTGTAACTGGATTTTTTCTGGGGCCTCAATCCAGTCTTGATAACAGCGAGGAAAGAGGT
ATTGAAGAAACAGGGGTGGGTTTGAAGTACTATTTTCCCCAGGGTGGCTTCAATCTCCCCACCTAGGATGTCAGC
CCTGTCCAAGGACCTTCCCTCTTCTCCCCCAGTTCCCTGGGCAATCACTTCACCTTGGACAAAGGATCAGCACAG
CTGGCCTCCAGATCCACATCACCACTCTTCCACTCGATTGTTCCCAGATCCTCCCTGCCTGGCCTGCTCAGAGGT
TCCCTGTTGGTAACCTGGCTTTATCAAATTCTCATCCCTTTCCCACACCCACTTCTCTCCTATCACCTTCCCCCA
AGATTACCTGAACAGGGTCCATGGCCACTCAACCTGTCAGCTTGCACCATCCCCACCTGCCACCTACAGTCAGGC
CACATGCCTGGTCACTGAATCATGCAAAACTGGCCTCAGTCCCTAAAAATGATGTGGAAAGGAAAGCCCAGGATC
TGACAATGAGCCCTGGTGGATTTGTGGGGAAAAAATACACAGCACTCCCCACCTTTCTTTCGTTCATCTCCAGGG
CCCCACCTCAGATCAAAGCAGCTCTGGATGAGATGGGACCTGCAGCTCTCCCTCCACAAGGTGACTCTTAGCAAC
CTCATTTCGACAGTGGTTTGTAGCGTGGTGCACCAGGGCCTTGTTGAACAGATCCACACTGCTCTAATAAAGTTC
CCATCCTTAATGACTCACTTGTCAACTAGTGGACTAATTAACCCTCCACCAAAAAAACACAAGTGCTTCTGTGA
GACCAATTTTGTGCTAATGAGCATTGAGACTGATGCTTTGTAAGTCACACCACAACAAATATTGATTGAGGGCGC
TGCATGTGCTGGGTACATTTCTTGGCACTTGGGAATCAGTAGTCAAGCGAAACCCTTGCCTTTGAGAGTTTATGG
TCTGGATAATATAAATAAACAAGTAAGCATAAAAAAAAAAAAAAAA
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2538/2825
FIGURE 2253

MVMRPLWSLLLWEALLPITVTGAQVLSKVGGSVLLVAARPPGFQVREAIWRSLWPSEELLATFFRGSLETLYHSR
FLGRAQLHSNLSLELGPLESGDSGNFSVLMVDTRGQPWTQTLQLKVYDAVPRPVVQVFIAVERDAQPSKTCQVFL
SCWAPNISEITYSWRRETTMDFGMEPHSLFTDGQVLSISLGPGDRDVAYSCIVSNPVSWDLATVTPWDSCHHEAA
PGKASYKDVLLVVVPVSLLLMLVTLFSAWHWCPCSGKKKKDVHADRVGPETENPLVQDLP

FIGURE 2254

GGCACGAGGCCGCCTTCTGCATCGCGGCTTCGGCGGCTTCCACCTAGACACCTAACAGTCGCGGAGCCGGCCGCG
TCGTGAGGGGGTCGGCACGGGGAGTCGGGCGGTCTTGTGCATCTTGGCTACCTGTGGGTCGAAG**ATG**TCGGACAT
CGGAGACTGGTTCAGGAGCATCCCGGCGATCACGCGCTATTGGTTCGCCGCCACCGTCGCCGTGCCCTTGGTCGG
CAAACTCGGCCTCATCAGCCCGGCCTACCTCTTCCTCTGGCCCGAAGCCTTCCTTTATCGCTTTCAGATTTGGAG
GCCAATCACTGCCACCTTTTATTTCCCTGTGGGTCCAGGAACTGGATTTCTTTATTTGGTCAATTTATATTTCTT
ATATCAGTATTCTACGCGACTTGAAACAGGAGCTTTTGATGGGAGGCCAGCAGACTATTTATTCATGCTCCTCTT
TAACTGGATTTGCATCGTGATTACTGGCTTAGCAATGGATATGCAGTTGCTGATGATTCCTCTGATCATGTCAGT
ACTTTATGTCTGGGCCCAGCTGAACAGAGACATGATTGTATCATTTTGGTTTGGAACACGATTTAAGGCCTGCTA
TTTACCCTGGGTTATCCTTGGATTCAACTATATCATCGGAGGCTCGGTAATCAATGAGCTTATTGGAAATCTGGT
TGGACATCTTTATTTTTTCCTAATGTTCAGATACCCAATGGACTTGGGAGGAAGAAATTTTCTATCCACACCTCA
GTTTTTGTACCGCTGGCTGCCCAGTAGGAGAGGAGGAGTATCAGGATTTGGTGTGCCCCCTGCTAGCATGAGGCG
AGCTGCTGATCAGAATGGCGGAGGCGGGAGACACAACTGGGGCCAGGGCTTTCGACTTGGAGACCAG**TGA**AGGGG
CGGCCTCGGGCAGCCGCTCCTCTCAAGCCACATTTCCTCCCAGTGCTGGGTGCGCTTAACAACTGCGTTCTGGCT
AACACTGTTGGACCTGACCCACACTGAATGTAGTCTTTCAGTACGAGACAAAGTTTCTTAAATCCCGAAGAAAAA
TATAAGTGTTCCACAAGTTTCACGATTCTCATTCAAGTCCTTACTGCTGTGAAGAACAAATACCAACTGTGCAAA
TTGCAAAACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

2540/2825
FIGURE 2255

MSDIGDWFRSIPAITRYWFAATVAVPLVGKLGLISPAYLFLWPEAFLYRFQIWRPITATFYFPVGPGTGFLYLVN
LYFLYQYSTRLETGAFDGRPADYLFMLLFNWICIVITGLAMDMQLLMIPLIMSVLYVWAQLNRDMIVSFWFGTRF
KACYLPWVILGFNYIIGGSVINELIGNLVGHLYFFLMFRYPMDLGGRNFLSTPQFLYRWLPSRRGGVSGFGVPPA
SMRRAADQNGGGGRHNWGQGFRLGDQ

FIGURE 2256A

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CAGCGCTGCTCCCCGGGCGCTCCTCCCCGGGCGCTCCTCCCCAGGCCTCCCGGGCGCTTGGATCCCGGCCATCTC
CGCACCCTTCAAGTGGGTGTGGGTGATTTCCTGGCGGGGGGAGCAGCCAGGTGAGCCCAAGATGCTGCTGCGCTC
GAAGCCTGCGCTGCCGCCGCCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCCTCTCCCCTGGCGCCCTGCC
CCGACCTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTCACCCAGGAGCCGCTGCACCTGGTGAGCCCCTC
GTTCCTGTCCGTCACCATTGACGCCAACCTGGCCACGGACCCGCGGTTCCTCATCCTCCTGGGTTCTCCAAAGCT
TCGTACCTTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGTTTGGTGGCACCAAGACAGACTTCCTAATTTTCGA
TCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGG
ATCCATCCCTCCTGATGTGGAGGAGAAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACA
CTACCAGAAAAAGTTCAAGAACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAACTGCTC
AGGACTGGACTTGATCTTTGGCCTAAATGCGTTATTAAGAACAGCAGATTTGCAGTGGAACAGTTCTAATGCTCA
GTTGCTCCTGGACTACTGCTCTTCCAAGGGGTATAACATTTCTTGGGAACTAGGCAATGAACCTAACAGTTTCCT
TAAGAAGGCTGATATTTTCATCAATGGGTCGCAGTTAGGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAA
GTCCACCTTCAAAAATGCAAAACTCTATGGTCCTGATGTTGGTCAGCCTCGAAGAAAGACGGCTAAGATGCTGAA
GAGCTTCCTGAAGGCTGGTGGAGAAGTGATTGATTCAGTTACATGGCATCACTACTATTTGAATGGACGGACTGC
TACCAGGGAAGATTTTCTAAACCCTGATGTATTGGACATTTTTATTTCATCTGTGCAAAAAGTTTTCCAGGTGGT
TGAGAGCACCAGGCCTGGCAAGAAGGTCTGGTTAGGAGAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCT
ATCCGACACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGGCCTGTCAGCCCGAATGGGAATAGAAGTGGT
GATGAGGCAAGTATTCTTTGGAGCAGGAAACTACCATTTAGTGGATGAAAACTTCGATCCTTTACCTGATTATTG
GCTATCTCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTAATGGCAAGCGTGCAAGGTTCAAAGAGAAGGAA
GCTTCGAGTATACCTTCATTGCACAAACACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCAT
AAACCTCCATAATGTCACCAAGTACTTGCGGTTACCCTATCCTTTTTCTAACAAGCAAGTGGATAAATACCTTCT
AAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAACTCAATGGTCTAACTCTAAAGATGGTGGATGA
TCAAACCTTGCCACCTTTAATGGAAAAACCTCTCCGGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAG
TTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCATCTGAAAATAAAATATACTAGTCCTGACACTGAATTT
TTCAAGTATACTAAGAGTAAAGCAACTCAAGTTATAGGAAAGGAAGCAGATACCTTGCAAAGCAACTAGTGGGTG
CTTGAGAGACACTGGGACACTGTCAGTGCTAGATTTAGCACAGTATTTTGATCTCGCTAGGTAGAACACTGCTAA
TAATAATAGCTAATAATACCTTGTTCCAAATACTGCTTAGCATTTTGCATGTTTTACTTTTATCTAAAGTTTTGT
TTTGTTTTATTATTTATTTATTTATTTATTTTGTGACGGAGAGAGATTCCATCTCAAAAAAACAAGTTATTAAAA
ATGTATATGAATGCTCCTAATATGGTCAGGAAGCAAGGAAGCGAAGGATATATTATGAGTTTTAAGAAGGTGCTT
AGCTGTATATTTATCTTTCAAAATGTATTAGAAGATTTTAGAATTCTTTCCTTCATGTGCCATCTCTACAGGCAC
CCATCAGAAAAAGCATACTGCCGTTACCGTGAAACTGGTTGTAAAAGAGAAACTATCTATTTGCACCTTAAAAGA
CAGCTAGATTTTGCTGATTTTCTTCTTTCGGTTTTCTTTGTCAGCAATAATATGTGAGAGGACAGATTGTTAGAT
ATGATAGTATAAAAAATGGTTAATGACAATTCAGAGGCGAGGAGATTCTGTAAACTTAAAATTACTATAAATGAA
ATTGATTTGTCAAGAGGATAAATTTTAGAAAACACCCAATACCTTATAACTGTCTGTTAATGCTTGCTTTTTCTC
TACCTTTCTTCCTTGTTTCAGTTGGGAAGCTTTTGGCTGCAAGTAACAGAAACTCCTAATTCAAATGGCTTAAGC
AATAAGGAAATGTATATTCCCACATAACTAGACGTTCAAACAGGCCAGGCTCCAGCACTTCAGTACGTCACCAGG
GGATCTGGGTTCTTCCCAGCTCTCTGCTCTGCCATCTTTAGCGCTGGCTTCATTCTCAGACTCTGGTAGCATGAT
GGCTGTAGCTGTTTCATGGGCCCCTTCAAACCTCATAGCAACCAGAGGAAGAAAATGAGCCATTTTTTGAGTCTC
CTTCATAGACTTGAATAACTCTTTTTCAGAGCTTCTCACAGCAAACCTCTCCTCATGTCTCCTCATGTCTTATTG
TTCAGAAATGGGTAATGTGGCCATTTCACCAGTCACTGCCAACAACAACGAGGTTCCTATAATTGTCTCTGAGTA
ACCCTTTGGAATGGAGAGGGTGTTGGTCAGTCTACAAACTGAACACTGCAGTTCTGCGCTTTTTACCAGTGAAAA
AATGTAATTATTTTCCCCTCTTAAGGATTAATATTCTTCAAATGTATGCCTGTTATGGATATAGTATCTTTAAAA
TTTTTTATTTTAATAGCTTTAGGGGTACACACTTTTTGCTTACAGGGGTGAATTGTGTAGTGGTGAAGACTCGGC
TTTTAATGTACTTGTCACCTGAGTGATGTACATTGTACCCAATAGGTAATTTTTCATCCATTACCCTCCTTCCGC
CCTCTTCCCTTCTGAGTCTCCAACATCCCTTATACCACTGTGTATGTTCTTGTGTACCTACAGCTAAGCTTCCAC
TTATAAGTGAGAACATGCAGTATTTGGTTTTCCATTCCTGAGTTACTTCCCTTAGGATAACAGCCCCCAGTTCCG
TCCAAGTTGCTGCAAAATACATTATTCTTCTTTATGGCTGAGTAATAGTCCATGGTACATATATACCACATTTTC
TTTATCCACTTATCAGTTGATGGACACTTAGGTTAATTCCATTCAATTTCATTCAATTTAAGTATATTTGTAAGG
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FIGURE 2256B

AGCTAAAGCTGAAAATTAAATTTTAGATCTTTCAATACTCTTAAATTTTATATGTAAGTGGTTTTTATATTTTCA
CATTTGAAATAAAGTAATTTTTATAACCTTGAAAAAAAAAAAAAAAAAAA

FIGURE 2257

MLLRSKPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVTIDANLATDPRFLILL
GSPKLRTLARGLSPAYLRFGGTKTDFLIFDPKKESTFEERSYWQSQVNQDICKYGSIPPDVEEKLRLEWPYQEQL
LLREHYQKKFKNSTYSRSSVDVLYTFANCSGLDLIFGLNALLRTADLQWNSSNAQLLLDYCSSKGYNISWELGNE
PNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGQPRRKTAKMLKSFLKAGGEVIDSVTWHHYYL
NGRTATREDFLNPDVLDIFISSVQKVFQVVESTRPGKKVWLGETSSAYGGGAPLLSDTFAAGFMWLDKLGLSARM
GIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSLLFKKLVGTKVLMASVQGSKRRKLRVYLHCTNTDNPRYKEGDL
TLYAINLHNVTKYLRLPYPFSNKQVDKYLLRPLGPHGLLSKSVQLNGLTKMVDDQTLPPLMEKPLRPGSSLGLP
AFSYSFFVIRNAKVAACI

FIGURE 2258

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GGCTGCGCTTCCCTGGTCAGGCACGGCACGTCTGGCCGGCCGCCAGGATGCAGGCCCCGCACAAGGAGCACCTGT
ACAAGTTGCTGGTGATTGGCGACCTGGGCGTGGGGAAGACCAGTATCATCAAGCGCTACGTGCACCAGAACTTCT
CCTCGCACTACCGGGCCACAATCGGCGTGGACTTCGCGCTCAAGGTGCTCCACTGGGACCCGGAGACTGTGGTGC
GCCTGCAGCTCTGGGATATCGCAGGTCAAGAAAGATTTGGAAACATGACGAGGGTCTATTACCGAGAAGCTATGG
GTGCATTTATTGTCTTCGATGTCACCAGGCCAGCCACATTTGAAGCAGTGGCAAAGTGGAAAAATGATTTGGACT
CCAAGTTAAGTCTCCCTAATGGCAAACCGGTTTCAGTGGTTTTGTTGGCCAACAAATGTGACCAGGGGAAGGATG
TGCTCATGAACAATGGCCTCAAGATGGACCAGTTCTGCAAGGAGCACGGTTTCGTAGGATGGTTTGAAACATCAG
CAAAGGAAAATATAAACATTGATGAAGCCTCCAGATGCCTGGTGAAACACATACTTGCAAATGAGTGTGACCTAA
TGGAGTCTATTGAGCCGGACGTCGTGAAGCCCCATCTCACATCAACCAAGGTTGCCAGCTGCTCTGGCTGTGCCA
AATCCTAGTAGGCACCTTTGCTGGTGTCTGGTAGGAATGACCTCATTGTTCCACAAATTGTGCCTCTATTTTTAC
CATTTTGGGTAAACGTCAGGATAGATATACCACATGTGGCAAGCCAAAGATCTATGCCTCTGTTTTTTCAATGAG
AGAGAAATAGCAAATGTTCTTTCTATGCTTTCCTCACCATCATCACAGTGTTTACAAACTTTTGAAAATATTTAG
TCTGTTACAAACTTCTGTCATGTAGCTGACCAAAATCCTGCAGGGCCACAGTCGGCACTGTTATTTGCTTCTTTT
AATCAGCAAAGGCCTCAAGTCTTAAAATAAAAGGGGAGAAGAACAAACTAGCTGTCAAGTCAAGGACTGGCTTTC
ACCTTGCCCTGGTGTCTTTTTCCAGATTTCAATATATTCTCTGATGGCCTGACAGGCCTATTAAGTAGATGTGAT
ATTTTCTTCCAAGATGACCTCCATTCTCGGCAGACCTAAGAGTTGCCTCTGAGTTAGCTCTTTGGAATCGTGAAC
ACAGGTGTGCTATATTGTCCTTGTCCTAACTGTCACTTGCCATGGCCTGAATGTTGGCTTAACTGAATATTGTAT
GAAAAGACATGCCTCCATATGTGCCTTTCTGTTAGCTCTCTTTGACTCAAGCTGTGGGGCTCCTCTATACATGCT
ATACATGTAATATATATTATATATATTTTTGCAAGTGAACAATAAAACATTAAAAGATAAAA
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FIGURE 2259

MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPETVVRLQLWDIAGQERFGNM
TRVYYREAMGAFIVFDVTRPATFEAVAKWKNDLDSKLSLPNGKPVSVVLLANKCDQGKDVLMNNGLKMDQFCKEH
GFVGWFETSAKENINIDEASRCLVKHILANECDLMESIEPDVVKPHLTSTKVASCSGCAKS

FIGURE 2260

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GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCGCGTGATGCTGTTTCTGGCGTTGGGCAGCCCGTGGGCGGTCGAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGCCGCCGCGCTCCGAGGTCCCCGGGCCTCTGTCTCCCGGGCGTCCTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTCGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTCGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAAT**ATG**GCCCGAGCAGTGTTTGGTGTGAAATGTTTCTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATACATTTTTACACAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGGAAGCTTTACGGTGATCACCCCAGTGCTGCTTCACTTTATTACAAAAGGCTATGTCATTCGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGCAGAAACGAGTACAGTGTTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTTATGACAAAGAAGAATTTATTTTGTATATGG
AAGAAACCAGTGAAGAGAAACGGCATAAAGATGACAAA**TGA**GCCTATTTGTTAGTGTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGACTGATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTTAATTTCCAGAGAATGATGTTTGTTTATAATAAAACAAGCTATGTTTGAAAACCAAAATGTAGT
ATCTACCATTCGTGTTTTAGAAAGGTATGTGAATAAATATGTTCATGCTAGTATAAGAGTTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTTCTA
AGTGTATAAATATTTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGCGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTCAGGAAGCTGGCT
AGGAAGCCTTGCAGCAGCCATGGCTTTTAAACATACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAAAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAAACTTACGGT
GAAGGTTCTAAGGCATGGGATCGTTCCAGATGAGAATCCACAAGCGACTCATTGACTTGCGCAGTCCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCTTAAGTCAAC
TGTTTTCATAAATTGATTACCAGTTGTTAAAAAATTTTCAAAAAACCGCAAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCCATAAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGGTAAGTAGTGTTGTCTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCTATGGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTTCAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2261

MARAVFGVKCFSYSTSLIGLTFLPYIFTQNNAISESVPLPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVFHQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFPNREDYIHLMGYDKEEFILYMEE
TSEEKRHKDDK

FIGURE 2262

CGGAATTGGTGGGTTCTTGGTCTCACTGAGTTCTAGAATGAAGCTGCAGACCCTCGCAGTGAGTGTTACAGCTCT
TAAGGCTCTCTGACTGCCACCCCTGCCTGCCTGCCCGGCCCTGCACAAC**ATG**CAGCCCTCCGGCCTCGAGGGTCC
CGGCACGTTTGGTCGGTGGCCTCTGCTGAGTCTGCTGCTCCTGCTGCTGCTGCTCCAGCCTGTAACCTGTGCCTA
CACCACGCCAGGCCCCCCCAGAGCCCTCACCACGCTGGGCGCCCCCAGAGCCCACACCATGCCGGGCACCTACGC
TCCCTCGACCACACTCAGTAGTCCCAGCACCCAGGGCCTGCAAGAGCAGGCACGGGCCCTGATGCGGGACTTCCC
GCTCGTGGACGGCCACAACGACCTGCCCCTGGTCCTAAGGCAGGTTTACCAGAAAGGGCTACAGGATGTTAACCT
GCGCAATTTCAGCTACGGCCAGACCAGCCTGGACAGGCTTAGAGATGGCCTCGTGGGCGCCCAGTTCTGGTCAGC
CTATGTGCCATGCCAGACCCAGGACCGGGATGCCCTGCGCCTCACCCTGGAGCAGATTGACCTCATACGCCGCAT
GTGTGCCTCCTATTCTGAGCTGGAGCTTGTGACCTCGGCTAAAGCTCTGAACGACACTCAGAAATTGGCCTGCCT
CATCGGTGTAGAGGGTGGCCACTCGCTGGACAATAGCCTCTCCATCTTACGTACCTTCTACATGCTGGGAGTGCG
CTACCTGACGCTCACCCACACCTGCAACACACCCTGGGCAGAGAGCTCCGCTAAGGGCGTCCACTCCTTCTACAA
CAACATCAGCGGGCTGACTGACTTTGGTGAGAAGGTGGTGGCAGAAATGAACCGCCTGGGCATGATGGTAGACTT
ATCCCATGTCTCAGATGCTGTGGCACGGCGGGCCCTGGAAGTGTCACAGGCACCTGTGATCTTCTCCCACTCGGC
TGCCCGGGGTGTGTGCAACAGTGCTCGGAATGTTCCTGATGACATCCTGCAGCTTCTGAAGAAGAACGGTGGCGT
CGTGATGGTGTCTTTGTCCATGGGAGTAATACAGTGCAACCCATCAGCCAATGTGTCCACTGTGGCAGATCACTT
CGACCACATCAAGGCTGTCATTGGATCCAAGTTCATCGGGATTGGTGGAGATTATGATGGGGCCGGCAAATTCCC
TCAGGGGCTGGAAGACGTGTCCACATACCCGGTCCTGATAGAGGAGTTGCTGAGTCGTGGCTGGAGTGAGGAAGA
GCTTCAGGGTGTCCTTCGTGGAAACCTGCTGCGGGTCTTCAGACAAGTGGAAAAGGTACAGGAAGAAAACAAATG
GCAAAGCCCCTTGGAGGACAAGTTCCCGGATGAGCAGCTGAGCAGTTCCTGCCACTCCGACCTCTCACGTCTGCG
TCAGAGACAGAGTCTGACTTCAGGCCAGGAACTCACTGAGATTCCCATACACTGGACAGCCAAGTTACCAGCCAA
GTGGTCAGTCTCAGAGTCCTCCCCCCACATGGCCCCAGTCCTTGCAGTTGTGGCCACCTTCCCAGTCCTTATTCT
GTGGCTC**TGA**TGACCCAGTTAGTCCTGCCAGATGTCACTGTAGCAAGCCACAGACACCCCACAAAGTTCCCCTGT
TGTGCAGGCACAAATATTTCTTGAAATAAATGTTTTGGACATAGAAAAAA

FIGURE 2263

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MQPSGLEGPGTFGRWPLLSLLLLLLLLQPVTCAYTTPGPPRALTTLGAPRAHTMPGTYAPSTTLSSPSTQGLQEQ
ARALMRDFPLVDGHNDLPLVLRQVYQKGLQDVNLRNFSYGQTSLDRLRDGLVGAQFWSAYVPCQTQDRDALRLTL
EQIDLIRRMCASYSELELVTSAKALNDTQKLACLIGVEGGHSLDNSLSILRTFYMLGVRYLTLTHTCNTPWAESS
AKGVHSFYNNISGLTDFGEKVVAEMNRLGMMVDLSHVSDAVARRALEVSQAPVIFSHSAARGVCNSARNVPDDIL
QLLKKNGGVVMVSLSMGVIQCNPSANVSTVADHFDHIKAVIGSKFIGIGGDYDGAGKFPQGLEDVSTYPVLIEEL
LSRGWSEEELQGVLRGNLLRVFRQVEKVQEENKWQSPLEDKFPDEQLSSSCHSDLSRLRQRQSLTSGQELTEIPI
HWTAKLPAKWSVSESSPHMAPVLAVVATFPVLILWL
```

FIGURE 2264

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ATTGGTGAAGCTCTAACGGCTGTTTTGACTGGCGTAGCCGGAGCCGGCGACGTGAGGCGGGCGTTGCTCGCGCGA
CAAGTAGTTGCTGGGACAGCGAAATGGAGGGGTGTGTGTCTAACCTAATGGTCTGCAACCTGGCCTACAGCGGGA
AGCTGGAAGAGTTGAAGGAGAGTATTCTGGCCGATAAATCCCTGGCTACTAGAACTGACCAGGACAGCAGAACTG
CATTGCACTGGGCATGCTCAGCTGGACATACAGAAATTGTTGAATTTTTGTTGCAACTTGGAGTGCCAGTGAATG
ATAAAGACGATGCAGGTTGGTCTCCTCTTCATATTGCGGCTTCTGCTGGCCGGGATGAGATTGTAAAAGCCCTTC
TGGGAAAAGGTGCTCAAGTGAATGCTGTCAATCAAAATGGCTGTACTCCCTTACATTATGCAGCTTCGAAAAACA
GGCATGAGATCGCTGTCATGTTACTGGAAGGCGGGGCTAATCCAGATGCTAAGGACCATTATGAGGCTACAGCAA
TGCACCGGGCAGCAGCCAAGGGTAACTTGAAGATGATTCATATCCTTCTGTACTACAAAGCATCCACAAACATCC
AAGACACTGAGGGTAACACTCCTCTACACTTAGCCTGTGATGAGGAGAGAGTGGAAGAAGCAAAACTGCTGGTGT
CCCAAGGAGCAAGTATTTACATTGAGAATAAAGAAGAAAAGACACCCCTGCAAGTGGCCAAAGGTGGCCTGGGTT
TAATACTCAAGAGAATGGTGGAAGGTTAAACAGCTTGGATTTATTCTTACTTTGTATGTTGTGTTGTTGTCCCCA
GTGTCCTACAAACTAATGTATTTGTGCACAAGACATCATCTATGAATGATGAAGTTTTCTCACCTTCAAAGTCTT
ATAAACATGTTGACTCTTGTTCCTGCTGAGTTACTTGTTCGAAGCTTACAGCTTGTTTTCCAGGCATCGAATAAC
TGTTGAGATTGTTCTACTGTTGTCGTATATTCTTCTATATTGAATTCTGGTTAATTTGGAGTAACTAATTCTGTG
GCTGTTGTGAGTCTTCAGCACCCTCCCATGTACCTTATATCCCTCTCTGAAACAGAACAGCTCCAATAGCAACAA
GCTAGTTGTTCTGCCAGATGTTTCTATGTGGATTCTGTAATGTTCCTCCATACAGTTAAAACATCCTAACTTGTT
TTTCAAGCTCACTCAGGCCTACGCCAAACGTTTCTGTTTTTTTAACCATGAGGTTTAATTTATTTTTGTGATAG
GAGGGATATTTACATATTTTAGTGGACCACATTTTAAGTTGGATGGTGTGCTCTAAAATACTGAAAACAATAGC
CCATATACCTATGTATTTGTTTTTGATGGGTTGTTTACTCTGAAATAAAATGTATGGTTTTCTTAAAAGGAAGTT
TTAAAGTACCTATTTTGTGTCATCCTGTATTGAAAAGAATGTCAAGCTTGTTAAAATGACATGTAACAAAAATGT
ATTTTGATTTGTATTTCAGAAACTAAAAAATAAAATGTTGAAAG
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2551/2825
FIGURE 2265

MEGCVSNLMVCNLAYSGKLEELKESILADKSLATRTDQDSRTALHWACSAGHTEIVEFLLQLGVPVNDKDDAGWS
PLHIAASAGRDEIVKALLGKGAQVNAVNQNGCTPLHYAASKNRHEIAVMLLEGGANPDAKDHYEATAMHRAAAKG
NLKMIHILLYYKASTNIQDTEGNTPLHLACDEERVEEAKLLVSQGASIYIENKEEKTPLQVAKGGLGLILKRMVE
G

FIGURE 2266

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GGCACGAGGCTTGTCCCCAGCGCCTGGACTCCCCCTTAACTGCTTGGGAAATGTGACCTTTGCTCTGGGGGGCCT
GGCCCTGCAGGCCCCAACCTTCCCTCATCTCTGGCGGCCCTCTTGGGCCTCTGACCCAGCCCCTCCCCGGGCCAG
GCTCACAGAAGCTGGCTTCTGGGACTGTCCTGGGCCCAAGTGGGCACCTGCGCCAGCCCCACCTGTGCCTGGGCT
GTGGCCCCTTCCTACAGGGCGCTCACCATGGCCCCGCCGCTCCTGCTGCTGCTGCTGGCCAGTGGAGCGGCCGCC
TGCCCGCTGCCCTGCGTCTGCCAGAACCTGTCCGAGTCGCTCAGCACCCTCTGTGCCCACCGAGGCCTGCTGTTT
GTGCCGCCCAACGTGGACCGGCGCACAGTGGAGCTGCGGCTGGCTGACAACTTCATCCAGGCCCTGGGGCCCCCT
GACTTCCGCAACATGACGGGACTGGTGGACCTGACACTGTCTCGCAATGCCATCACCCGCATTGGGGCCCGCGCC
TTTGGGGACCTCGAGAGCCTGCGTTCCCTCCACCTTGACGGCAACAGGCTGGTGGAGCTGGGCACCGGGAGCCTC
CGGGGCCCCGTCAATCTGCAGCACCTCATCCTCAGCGGCAACCAGCTGGGCCGCATCGCGCCGGGAGCCTTCGAC
GACTTCCTAGAGAGCCTGGAGGACCTGGACCTGTCCTACAACAACCTCCGGCAGGTGCCCTGGGCCGGCATCGGC
GCCATGCCTGCCCTGCACACCCTCAACCTGGACCATAACCTTATTGACGCACTGCCCCCAGGCGCCTTCGCCCAG
CTCGGTCAGCTCTCCCGCCTGGACCTCACCTCCAACCGCCTGGCCACGCTGGCTCCGGACCCGCTTTTCTCTCGT
GGGCGTGATGCAGAGGCCTCTCCCGCCCCCCTGGTGCTGAGCTTTAGCGGGAACCCCCTGCACTGCAACTGTGAG
CTGCTGTGGCTGCGGCGGCTGGCGCGGCCGGACGACCTGGAAACGTGCGCCTCCCCGCCCGGCCTGGCCGGCCGC
TACTTCTGGGCAGTGCCCGAGGGCGAGTTCTCCTGTGAGCCGCCCCTCATTGCCCGCCACACGCAGCGCCTCTGG
GTGCTGGAAGGCCAGCGGGCCACGCTGCGGTGCCGGGCCCTGGGTGACCCCGCGCCTACC**ATG**CACTGGGTCGGT
CCTGACGACCGGTTGGTTGGCAACTCCTCCCGAGCCCGGGCTTTCCCCAACGGGACCTTAGAGATTGGGGTGACC
GGCGCTGGGGACGCTGGGGGCTACACCTGCATCGCCACCAACCCTGCTGGTGAGGCCACAGCCCGAGTAGAACTG
CGGGTGCTGGCCTTGCCCCATGGTGGGAACAGCAGTGCCGAGGGGGGCCGCCCCGGGCCCTCGGACATCGCCGCC
TCCGCTCGCACTGCTGCCGAGGGTGAGGGGACGCTGGAGTCTGAGCCAGCCGTGCAGGTGACGGAGGTGACCGCC
ACCTCAGGGCTGGTGAGCTGGGGTCCCGGGCGGCCAGCCGACCCAGTGTGGATGTTCCAAATCCAGTACAACAGC
AGCGAAGATGAGACCCTCATCTACCGGATTGTCCCAGCCTCCAGCCACCACTTCCTGCTGAAGCACCTCGTCCCC
GGCGCTGACTATGACCTCTGCCTGCTGGCCTTGTCACCGGCCGCTGGGCCCTCTGACCTCACGGCCACCAGGCTG
CTGGGCTGTGCCCATTTCTCCACGCTGCCGGCCTCGCCCCTGTGCCACGCCCTGCAGGCCCACGTGCTGGGCGGG
ACCCTGACCGTGGCCGTGGGGGGTGTGCTGGTGGCTGCCTTACTGGTCTTCACTGTGGCCTTGCTGGTTCGGGGC
CGGGGGGGCCGGAAATGGCCGCCTCCCCCTCAAGCTCAGCCACGTCCAGTCCCAGACCAATGGAGGCCCCAGCCCC
ACACCCAAGGCCCACCCGCCGCGGAGCCCCCCGCCCCGGCCGCAGCGCAGCTGCTCTCTGGACCTGGGAGATGCC
GGGTGCTACGGTTATGCCAGGCGCCTGGGAGGAGCTTGGGCCCGACGGAGCCACTCTGTGCATGGGGGGCTGCTC
GGGGCAGGGTGCCGGGGGGGTAGGAGGCAGCGCCGAGCGGCTGGAAGAGAGTGTGGTG**TGA**TGGACGGGCAGCTTC
CTGTGTGCTCCAAGGGATGAGCCTCGTGGGGCAGAGGGCCCGGGGCCGCCGCCTGGCCTGGGAGTCCCTCCCTGG
TTTTTATTCTCAGTACCTCAGGCTCCCCTGTGTACTTGGAGGGGCAGGGAGCCCTTTCCTCGGTTCTGGCCTCCA
GACCAGGGTAAGGGCAGGCCCCTCCAACAGGTGCTCACAGCCACCGAGGCAGGGCTGCAGCCACCCACTGGGAG
TCTTGTTTTTATTTATAATAAAATTGTTGGGGACACCTCAAAAAAAAAAAAAAAAAAAA
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2553/2825
FIGURE 2267

MHWVGPDDRLVGNSSRARAFPNGTLEIGVTGAGDAGGYTCIATNPAGEATARVELRVLALPHGGNSSAEGGRPGP
SDIAASARTAAEGEGTLESEPAVQVTEVTATSGLVSWGPGRPADPVWMFQIQYNSSEDETLIYRIVPASSHHFLL
KHLVPGADYDLCLLALSPAAGPSDLTATRLLGCAHFSTLPASPLCHALQAHVLGGTLTVAVGGVLVAALLVFTVA
LLVRGRGAGNGRLPLKLSHVQSQTNGGPSPTPKAHPPRSPPPRPQRSCSLDLGDAGCYGYARRLGGAWARRSHSV
HGGLLGAGCRGVGGSAERLEESVV

FIGURE 2268A

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AGACGCGTAGGCTGGCAGCCCGCTGAGCCCGCCAGACTCCGCCGCCGTCGGGAGCCGGCCGCTGGGAGCCCGTCG
CTATGGGACCGCGCTGAGCCGCCCGCTGGCGGGGGAGCAGCGCGGTCGAGGATGGAGGGGCCGGCAGAGTGGGGC
CCCGAGGCGGCGCTGGGCCCCGAGGCGGTGCTGCGCTTCCTGGCGGAGCGCGGGGGCCGGGCCCTGCACGCCGAG
CTGGTGCAGCACTTCAGGGGCGCCCTGGGCGGCGAACCGGAGCAGCGCGCCCGCGCCCGCGCGCACTTCAAGGAG
CTGGTGAACGCCGTGGCCACTGTGCGCGTCGATCCCGCCGACGGCGCCAAGTACGTGCACCTCAAGAAGAGGTTC
TGTGAAGGGCCGTCCGAGCCCTCCGGGGACCCGCCGCGAATCCAGGTGACCGCCGAGCCCGAGGCCCCGACGGC
CCTGCCGGGCCCGAGGCGCGCGATCGGCTCCCCGACGCGGCGGCCCCGGAGTCGCTCCCTGGACAGGGCCGCGAG
CTGGGCGAGGGAGAGCCCCCCGCCCCCGCGCACTGGCCGCCCCTGAGCGCCGGGGCTCGCAGGAAGAACTCGCGG
CGCGACGTGCAGCCCCTACCGCGGACTCCAGCCCCGGGGCCCAGCGAGGACCTGGAGCTCCCGCCACATGGCTGC
GAGGAGGCGGACAGGGGCAGCTCCCTTGTGGGGGCTACCGCACAGAGGCCGGCCCGCCAGAACCTCCGTGACCTG
GTGATGGGCAGCTCCCCGCAGCTGAAGAGGAGCGTGTGTCCCGGGGGCAGCAGCCCGGGCAGCTCCTCCGGGGGA
GGACGCGGCAGAGGCGGGGGCGACTCAGACAGCGCATCGGTGGCCTCGTCGTCCGCGGAGGAGGAGAGCAGCGGC
GGAGGCTCCGTGACGCTGGACCCCCTGGAGCACGCGTGGATGCTCTCTGCCTCCGATGGCAAGTGGGACAGCCTG
GAGGGCTTGCTCACCTGCGAGCCCGGCCTGCTGGTCAAGCGGGACTTCATTACCGGCTTCACTTGCCTGCGCTGG
GCCGCAAGCACGGCAGGCAGGAGCTTGTGGCCATGCTAGTCAACTTCGCCAACAAACACCAGCTGCCGGTGAACA
TGGACGCCAGGACGAGCGGGGGTTACACCGCCCTGCACTTGGCAGCCATGCACGGCCACGTGGAGGTGGTGAAGC
TGCTGGTGGGGGCCTACGACGCCGATGTGGACATCAGGGACTACAGTGGGAAAAAGGCCTCCCAGTACCTGAGTC
GGAGCATCGCCGAGGAGATCAAGAACCTGGTGGGAGCCCTGGACGAGGGTGACGGGGAAAGCGCCGCGGGTAGCG
GCGGCGGGCGCTGGAGGCTTTCAAAGGTGCTTCCCTCGCATCTCATCACCTACAAACTCTCACACGCCCTAGAAG
ATGGAGGGGACCATCACCACCATCACCACTCGGCTGAGGGGTGGGTCGGAGGCAAAGCCAAGGATCCAGGGCGCA
AAGCCTCGGGCAGCTCTAGTGGACGTATAAAACCCAGACTCAACAAAATCCGATTCAGAACCCAGATCGTCCACA
CCACACCCTCTTTCAGGGACCCAGAGCAGCCGCTGGAGGGCAGGGGGGAGGAGGGAGTGGGGGAGGAACGACCTG
TTAAAGGCCACTCGCCCTTCACATTGAGACCAAAGTCCAATGTATTTGGGTAAAAATTGCTTCTTTTAGAAAATG
CAAAGGTTTATTTGTCTTAATAAATTGAATACTAGGTGTTGTAAGGAAGTGAGACCAGAAGGACAAGCTAAATTA
TGCATTCTTACTTGAGGGATCGGAATGGATGGGGCGGAGTTCTCTTCGGGCTAGCCTTCTGGGAAAAGTGGATGT
CTTTTTCAGAGATTCATCATACCTTGACCTGTACCTCTTCTCTGCCCTCCACTTCCCTGCCCTGGAGTCCGTTTC
TGGAGGCTAGAAATGTATCTAAATTGGGGGAACAGAATGAATGAATTAATGAATGAGAGTTCCTTTGCTTTAACC
ATTCCTGGATGCCTGCAAAGTAAGGAATAATGCAGTTTTTATGTATCTGATTTTATAAGGGGTTACTCTTTCAAG
AGTAACAAAAAAATGCAAACTGTAATGAAACTACATTGTATTTCTAAGTGTGAAAACGACAGGCTGCCCCGTTTT
TACTAATTGCATTTGCATTTTAAGGTACTACTGAAGGTCAGATCAAAGTTGAAATGCAAAAATACTAATTAGAGA
ATAATGTGAATAAAATGGGAATCTTCTTGGTATTTTATGTGTATTGTAAGTAGCAGTTAAATTATTTTTTTAAAA
GCAATTTCAGTTTTAATCACTGAACAAAAGAAACAGGCAACATTCACTTCTGTAGTATGGTTTCCACCTATCTCT
AACACCACTATTAAGGTACACCAGTGTTAAGGTACATTAATAACTACACAAATTTTATTTAAAGAGAACACTTA
GCAGCCTATGATAGTTTTCAATAAAATGTTGCCTCTCTTCGGATTCTCACTAACTTTTGTTACTATTCTAAAAG
TTTGAATTTGCTGGGGTGTTTATTCTGAGGATTATTTAACCATTGTTCTATTGGCATAACCCTATTTAATGGTG
CTTAGAGCTGAATTACCTACAGAAACTGTTTCTGGTTTAAATAATTAGCACAAATTGGCCTAAGTATTCATGAGC
CCATGTTTCTGTGAAGTAATTATTAAACCAACTTAATGATTCTTATGTAAGGTACACTTTTTATTTTAATACATT
GGTAGTCTCTATGACTTGTAGCAATGTTTTACAAATGTTTAAAATGCTAAACTTAATTTTCCAAGCTTTTCTTGA
CAATTAGATACCTATCCTGTAGTTACTGAAAATCTGGGTAGTAAATCTACCCAATTAAAATGGCACTTTATAAAA
GGGAATAGAGAAGAGATGGGACTATTTCTATATTTAAATGCTGCTGGCTATTCCTTTGTATATAAATGAAAAATA
CCATTCATTAAAATTAAGTACTCGTTTAAGTATGGTTCTTAATTACATTTCATTCATTTATATTAGAGTAAATGG
CTTCATAACTACTTTAAAATTTAACCCACAAGCATATTAAATCTGTTTGTTATAAGGTTGGAAACAATTTTTGAG
AGGGACTAATTTAAACAAGTCCTCCTTTAGTCTTTTGGGTCGCGTAGTTGCTGAAACCTAAGTACCTGCAGCCTA
CAGGATAAGGAAGTTCACAGCCTGCGGGGTGAATGAACCCATGTGTGAACTGCACAGAGCAATTCATAGAAAATG
CATAGAAATTTGTAACACTTTGGTCACATCTGTCTCTAGATGGTCATTGAATTTGTTTAAAGATGGATGAAAGGC
CAGGCATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACTTGAGGCCAGGAGT
TTGAAACCAGCCTGGCCAACATGGTGAAAACCTGTCTCTACTAAAAATACAAAAATTAGCCGAGCGTGGTGGTGC
GTGCCTGTAGTCCCAGCTACTTAGGAGGCTGAGGCATGAGAATCACTTAAACCTGAGAGGTGGAGGTTGCAGTTG
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2555/2825
FIGURE 2268B

AGCCAAGATCACGACACTGCACTCCAGCCTGGGCAACGGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAA

2556/2825
FIGURE 2269

MEGPAEWGPEAALGPEAVLRFLAERGGRALHAELVQHFRGALGGEPEQRARARAHFKELVNAVATVRVDPADGAK
YVHLKKRFCEGPSEPSGDPPRIQVTAEPEAPDGPAGPEARDRLPDAAAPESLPGQGRELGEGEPPAPAHWPPLSA
GARRKNSRRDVQPLPRTPAPGPSEDLELPPHGCEEADRGSSLVGATAQRPARQNLRDLVMGSSPQLKRSVCPGGS
SPGSSSGGGRGRGGGDSDSASVASSSAEEESSGGGSVTLDPLEHAWMLSASDGKWDSLEGLLTCEPGLLVKRDFI
TGFTCLRWAASTAGRSLWPC

2557/2825
FIGURE 2270

ACAGCAATAGTGCAGAATCCAGA**ATG**GATGTCCTCTTTGTAGCCATCTTTGCTGTGCCACTTATCCTGGGACAAG
AATATGAGGATGAAGAAAGACTGGGAGAGGATGAATATTATCAGGTGGTCTATTATTATACAGTCACCCCCAGTT
ATGATGACTTTAGTGCAGATTTCACCATTGATTACTCCATATTTGAGTCAGAGGACAGGCTGAACAGGTTGGATA
AGGACATAACAGAAGCAATAGAGACTACCATTAGTCTTGAAACAGCACGTGCAGACCATCCGAAGCCTGTAACTG
TGAAACCAGTAACAACGGAACCTAGTCCAGATCTGAACGATGCCGTGTCCAGTTTGCGAAGTCCTATTCCCCTCC
TCCTGTCGCGTGCCTTTGTTCAGGTGGGGATGTATTTCATG**TAG**AAGGTGGAAGAAGGCTGCTATGACTCTTTGG
ATGGGAGTCTGGCAAGAGGAAATTGGAAGATAAAATAAATAATAAGTGAAATAAAGAAAAAAAAAAAA

2558/2825
FIGURE 2271

MDVLFVAIFAVPLILGQEYEDEERLGEDEYYQVVYYYTVTPSYDDFSADFTIDYSIFESEDRLNRLDKDITEAIE
TTISLETARADHPKPVTVKPVTTEPSPDLNDAVSSLRSPIPLLLSRAFVQVGMYFM

FIGURE 2272

GAATTCCGGGCACCCCTCGAGCGAGCGAGCTAGCCAGCAGGCATCGAGGGGGCGCGGCTGCCGTCCGGACGAGAC
AGGCGAACCCGACGCAGAAGAGTCCACCACCGGACAGTCAGGTAGCCGCCGCGTCCCTCGCACACGCAGAGTCGG
GCGGCGCGGGGTCTCCCTTGCGCCCGGCCTCCGCCCTCTCCTCCTCTCCTTTCCCCTTCTTCTCGCTGTCCTCTC
CTCTCTCGCTGCCCGCGTTTGCGCAGCCCCGGGCC**ATG**TCCGACGCGTCCCTCCGCAGCACATCCACGATGGAGC
GTCTTGTCGCCCGTGGGACCTTCCCAGTACTAGTGCGCACCAGCGCCTGCCGCAGCCTCTTCGGGCCGGTGGACC
ACGAGGAGCTGAGCCGCGAGCTGCAGGCCCGCCTGGCCGAGCTGAACGCCGAGGACCAGAACCGCTGGGATTACG
ACTTCCAGCAGGACATGCCGCTGCGGGGCCCTGGACGCCTGCAGTGGACCGAAGTGGACAGCGACTCGGTGCCCG
CGTTCTACCGCGAGACGGTGCAGGTGGGGCGCTGCCGCCTGCTGCTGGCGCCGCGGCCCGTCGCGGTCGCGGTGG
CTGTCAGCCCGCCCCTCGAGCCGGCCGCTGAGTCCCTCGACGGCCTCGAGGAGGCGCCGGAGCAGCTGCCTAGTG
TCCCGGTCCCGGCCCCGGCGTCCACCCCGCCCCCAGTCCCGGTCCTGGCTCCAGCCCCGGCCCCGGCTCCGGCTC
CGGTCGCGGCTCCGGTCGCGGCTCCGGTCGCGGTCGCGGTCCTGGCCCCGGCCCCGGCCCCGGCCCCGGCTCCGG
CTCCGGCCCCGGCTCCAGTCGCGGCCCCGGCCCCAGCCCCGGCCCCGGCCCCGGCCCCGGCCCCGCCCCGGCCC
CGGCCCCGGACGCGGCGCCTCAAGAGAGCGCCGAGCAGGGCGCGAACCAGGGGCAGCGCGGCCAGGAGCCTCTCG
CTGACCAGCTGCACTCGGGGATTTCGGGACGTCCCGCGGCCGGCACCGCGGCCGCCAGCGCCAACGGCGCGGCGA
TCAAGAAGCTGTCCGGGCCTCTGATCTCCGATTTCTTCGCCAAGCGCAAGAGATCAGCGCCTGAGAAGTCGTCGG
GCGATGTCCCCGCGCCGTGTCCCTCTCCAAGCGCCGCCCCTGGCGTGGGCTCGGTGGAGCAGACCCCGCGCAAGA
GGCTGCGG**TGA**GCCAATTTAGAGCCCAAAGAGCCCCGAGGGAACCTGCCGGGGCAGCGGACGTTGGAAGGGCGCT
GGGCCTCGGCTGGGACCGTTCATGTAGCAGCAACCGGCGGCGGCTGCCGCAGAGCAGCGTTCGGTTTTGTTTTTA
AATTTTGAAAACTGTGCAATGTATTAATAACGTCTTTTTATATCTAAATGTATTCTGCACGAGAAGGTACACTGG
TCCCAAAGTGTAAAGCTTTAAGAGTCATTTATATAAAATGTTTAATCTCTGCTGAAACTCAGTACAAAAAAACCG
GGATTCCGGCC

2560/2825
FIGURE 2273

MSDASLRSTSTMERLVARGTFPVLVRTSACRSLFGPVDHEELSRELQARLAELNAEDQNRWDYDFQQDMPLRGPG
RLQWTEVDSDSVPAFYRETVQVGRCRLLLAPRPVAVAVAVSPPLEPAAESLDGLEEAPEQLPSVPVPAPASTPPP
VPVLAPAPAPAPAPVAAPVAAPVAVAVLAPAPAPAPAPAPAPVAAPAPAPAPAPAPAPAPDAAPQESAE
QGANQGQRGQEPLADQLHSGISGRPAAGTAAASANGAAIKKLSGPLISDFFAKRKRSAPEKSSGDVPAPCPSPSA
APGVGSVEQTPRKRLR

FIGURE 2274

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GCCGGCTCCAGTTAGAGCTCGGGTCTCCTCGCCACAGCTCCGAGTCTTTCGTTCTGGGAGGCCCAGGCGGCTTCG
CGTTCTGAGAATAAACAGAACCTCTGTTGCTCTGCGACTTGCAGGCACTGGGAGATTCGTAGCTAAGACGCCAGG
GCATCCCGGAAGCTGGGAAATGGGACTGTTGACATTCAGGGATGTGGCCGTAGAATTCTCTTTGGAGGAGTGGGA
ACACCTGGAACCAGCTCAGAAGAATTTGTATCAGGATGTGATGTTAGAAAACTACAGAAACCTGGTCTCTCTGGG
TCTTGTTGTCTCTAAGCCGGACCTGATCACCTTTTTGGAACAAAGGAAAGAGCCTTGGAATGTGAAGAGTGAGGA
GACAGTAGCCATCCAGCCAGATGTGTTTTCGCATTATAACAAGGACCTGTTGACAGAGCACTGCACAGAAGCTTC
ATTCCAAAAAGTGATATCGAGGAGACATGGGAGCTGTGATCTTGAGAATTTACATTTAAGAAAAAGGTGGAAAAG
GGAGGAGTGTGAAGGGCACAATGGATGTTATGATGAAAGACTTTTAAATATGATCAATTTGATGAATCCTCTGT
TGAAAGTTTGTTTCACCAGCAAATACTTTCTTCTTGTGCCAAAAGCTATAACTTTGATCAATATAGGAAGGTCTT
TACTCATTCATCATTGCTTAATCAACAAGAGGAAATAGATATTTGGGGAAAACATCACATATATGATAAAACTTC
AGTGTTATTTAGGCAGGTCTCTACTCTAAATAGTTACCGAAATGTTTTTATTGGAGAGAAAAATTATCATTGCAA
TAATTCTGAAAAAACCTTGAACCAAAGCTCAAGCCCTAAAAATCATCAGGAAAATTATTTTCTAGAAAAACAATA
CAAATGTAAAGAATTTGAGGAAGTCTTTCTTCAGAGTATGCATGGGCAAGAGAAACAAGAACAGTCTTACAAATG
TAATAAATGTGTAGAAGTTTGTACCCAGTCATTAAAACATATTCAACATCAGACCATCCATATCAGAGAAAACTC
ATATAGCTATAACAAATATGATAAAGATCTTAGTCAGTCATCAAATCTTAGAAAGCAGATAATCCATAATGAAGA
GAAACCATACAAATGTGAAAAATGTGGGGATAGCTTAAACCATAGTTTGCACCTTACTCAACATCAGATCATTCC
TACCGAAGAGAAACCCTATAAATGGAAAGAATGTGGCAAGGTCTTTAACCTTAACTGTAGTTTATACCTTACTAA
ACAGCAGCAAATTGATACTGGAGAAAACCTTTACAAATGTAAAGCATGTAGCAAATCTTTTACTCGTTCCTCCAA
TCTTATTGTGCATCAGAGAATTCACACTGGAGAGAAACCATACAAATGTAAAGAATGTGGCAAAGCCTTTCGCTG
TAGTTCATACCTTACTAAACATAAGCGAATTCATACTGGAGAGAAACCTTATAAATGTAAAGAATGTGGAAAAGC
TTTTAACCGTAGTTCATGCCTTACTCAACATCAGACAACTCATACAGGAGAAAAACTTTACAAATGTAAAGTATG
TAGCAAATCTTATGCTCGTTCTTCAAATCTTATTATGCATCAGAGAGTTCATACTGGAGAGAAGCCTTATAAATG
TAAAGAATGTGGCAAAGTCTTTAGCCGTAGTTCTTGCCTTACTCAACATCGGAAAATTCATACTGGAGAAAATCT
TTACAAATGCAAAGTATGTGCTAAACCTTTTACTTGTTTCTCAAATCTTATTGTGCATGAGAGAATTCATACTGG
AGAGAAACCCTATAAATGTAAAGAATGTGGCAAAGCCTTTCCTTATAGTTCACACCTTATTCGACATCATCGAAT
TCATACTGGAGAAAAACCATACAAATGTAAAGCATGTAGCAAATCTTTTAGTGACTCCTCAGGTCTTACTGTGCA
TCGGCGAACTCATACTGGAGAGAAACCCTATACATGTAAAGAATGTGGCAAAGCCTTTAGTTATAGTTCAGATGT
TATTCAGCATCGGAGAATTCATACTGGCCAGAGACCCTACAAATGTGAAGAATGTGGCAAAGCCTTCAACTATAG
GTCATACCTCACTACACATCAGAGAAGTCATACTGGAGAGAGACCCTACAAATGTGAAGAATGTGGCAAAGCCTT
CAACTATAGGTCATACCTCACTACACATCGGAGAAGACATACTGGAGAGAGACCCTACAAATGTGATGAATGTGG
TAAAGCCTTCAGCTATAGGTCATACCTCACTACACATCGGAGAAGTCATAGTGGAGAGAGACCCTACAAATGTGA
AGAATGTGGCAAAGCCTTTAACTCTAGGTCATACCTCATTGCACATCAGAGAAGTCATACTAGAGAAAAACTT**TA**
**A**AAATGTAAAACATGGAGCAGATTTTTTACTTGTTACCCATGTCTTATTGTGCATCAGATAATTTATATGGGAGT
GAAACCCTACAAATGTTAAGAATGTGGCATAACCTTTAACTATTTTCAAGCCTTACACAATAGCAGAGAATATAA
ACTGAAAAAATCCATACAAATATTAAAAATGTGGCAATTATTTTAAACTGTGCTCAACCCTTACTCAAGATAAT
CCATACTAGAGAAACACTATAGATGTAAAAATGTGAAAGTTTTATTCAAAATATCAAACTTATGAGTCACCTAG
GGGTTCATAGAAAAGGAAGTTTGCAGATGCAATAAATGTGAGGAAGTATTTAATAAAAAATGAAGTCTAAATGT
GTCAGAGAATTTATGTGAGAAAGGACTAAAGCACAGACACTTTCAGCCTTTATACTAAATAAGAGTATTTTTTGT
ACAGAATAATCTAAAGGCAAAATAATTAGATAATTTATTTGCTTATATGTTTAAAGTAGCAAGAACATTGATGT
TTTGACAGGTATATTTCATAGATACTTCATTTGTATTTACAGTATTTGAGGTTTTTGGAAAGCAAATATTATTTA
TATAATTCAGCTTTCAAATCTGTTGCTGCTTTTCCTTAATCCGTGGTGTTCATGTGAAAATATGTGTTCTGTTTT
TTTTTCTGCATCAGAACAATGTGAGGTCATTCTACGTTAATATCATTAATATCAGCATTTTTCATGGAAGTTTAA
TGCCAAATGTAAAACACATGAAAATTTTTAAAAATATGCTCTTTGTGTTTGANTCATTAAACAGTAATATGTGTA
AACATATAGTACATATTTAGGGCATTAGTATTCTATACTAAAGTAAAAGAGGAATATTCTGAATTTATTTATTAC
ATCAATTGCTCCTTAAGTAGAAAAACACTGGTCAGTTATTTAAAATACTGGCATACCTTTATAGTACAATGAAGT
AGTAATCTTGGAATATTATTTG
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2562/2825
FIGURE 2275

PAPVRARVSSPQLRVFRSGRPRRLRVLRINRTSVALRLAGTGRFVAKTPGHPGSWEMGLLTFRDVAVEFSLEEWE
HLEPAQKNLYQDVMLENYRNLVSLGLVVSKPDLITFLEQRKEPWNVKSEETVAIQPDVFSHYNKDLLTEHCTEAS
FQKVISRRHGSCDLENLHLRKRWKREECEGHNGCYDEKTFKYDQFDESSVESLFHQQILSSCAKSYNFDQYRKVF
THSSLLNQQEEIDIWGKHHIYDKTSVLFRQVSTLNSYRNVFIGEKNYHCNNSEKTLNQSSSPKNHQENYFLEKQY
KCKEFEEVFLQSMHGQEKQEQSYKCNKCVEVCTQSLKHIQHQTIHIRENSYSYNKYDKDLSQSSNLRKQIIHNEE
KPYKCEKCGDSLNHSLHLTQHQIIPTEEKPYKWKECGKVFNLNCSLYLTKQQQIDTGENLYKCKACSKSFTRSSN
LIVHQRIHTGEKPYKCKECGKAFRCSSYLTKHKRIHTGEKPYKCKECGKAFNRSSCLTQHQTTHTGEKLYKCKVC
SKSYARSSNLIMHQRVHTGEKPYKCKECGKVFSRSSCLTQHRKIHTGENLYKCKVCAKPFTCFSNLIVHERIHTG
EKPYKCKECGKAFPYSSHLIRHHRIHTGEKPYKCKACSKSFSDSSGLTVHRRTHTGEKPYTCKECGKAFSYSSDV
IQHRRIHTGQRPYKCEECGKAFNYRSYLTTHQRSHTGERPYKCEECGKAFNYRSYLTTHRRRHTGERPYKCDECG
KAFSYRSYLTTHRRSHSGERPYKCEECGKAFNSRSYLIAHQRSHTREKL

FIGURE 2276

GCTGGAGGAGCCTCGAGGCTGAGGCTGCCGGGGGGCTGTGGGCTACCGGGCCGCCGGCGCCTCAGCG**ATG**TTTTA
CTCAGGGCTCCTCACTGAGGGCGGCCGCAAGGAGACCGACATGCGGGAGGCGGCGTCACTGCGACAGCAGCGCCG
GATGAAGCAGGCGGTGCAGTTCATCCACAAGGACTCCGCCGACCTGCTGCCCCTGGACGGCCTCAAGAAGCTGGG
CTCGTCCAAGGACATGCAACCTCATAATATTCTGCAGAGGCGCCTCATGGAAACCAACCTGTCTAAGCTCCGAAG
CGGTCCCCGTGTCCCTTGGGCCTCTAAGACGAACAAACTCAATCAGGCTAAGTCTGAGGGGCTAAAGAAGTCTGA
GGAGGATGACATGATTTTGGTTTCTTGCCAGTGTGCTGGAAAGGATGTGAAAGCCTTGGTTGACACAGGCTGCCT
ATATAATCTCATCTCTTTGGCCTGTGTGGACAGATTGGGACTCAAGGAGCATGTCAAATCCCACAAGCATGAAGG
AGAAAAGCTTTCTCTACCCCGGCATCTCAAAGTAGTGGGCCAGATTGAGCACCTAGTGATCACACTGGGCTCCCT
CCGCCTGGACTGCCCAGCAGCTGTGGTTGATGACAATGAGAAAAACTTGTCCCTTGGTCTACAGACTCTCCGATC
TCTGAAGTGCATCATAAACTTGGATAAGCACCGGCTGATCATGGGGAAGACAGACAAGGAAGAAATCCCTTTTGT
GGAGACAGTCTCTTTGAATGAAGACAACACTTCAGAAGCA**TAA**CTACAGCCTGCAGCATGTCTGCACGTGTGCAT
GCATACACACCGGGTTGACAGATTGAGAAAACTGGGTTTGAACCAAATGCCGTAGTGACTTGCTGTGGACCAAGT
CCTTCCATCTAATAGAAGCTCCAGGGGCTCCTTCCCATTCAGACCTCTCTAGACTATAGTCTATGCTTAGAGATC
TTGTCTGGTTATGGCCATTGTTTTTTACTACTTTGATCACTTAACTTATAGACCTTTTTTGACACTGCCAGTCTC
ACTTGTGGCCTATTTCTCTGCTTCTTCCAGGAATTTGCTTTTATTAGTCAAGTATAGGGGCTGCCAGGTTCTGTG
TCTCCATAGATATATGTGCTTCTTTTCCTATAGCTAAATGTATAATAAACAGGAACCTGACCTTTACCTCCTTTC
AGCTGTTTCAAACAGGTGCCAGGATACCTATGTCTTAGAATTAGAGTTTCTTCAAATTGATTCATTGATTTCTCA
AGTATGGATTATGTGAAAGAGCCCAGGGACATTATCCATTACAGTCTAACTCTTTCATTTAAAGGTCCAGAGAGG
CAAGTGAATTGTCTAAGTTCATATATTAGGTCAGTGACTGAAGGGACCAAGAACGCAGACCTGATTTCCAAGCCA
AGACTCCCATGCTGCCTCATTTGTATTCAAGCCTTTAACAGGAGGGCAAAGAGGTGAGAATGTGTTAAAAAAAAA
AAAAAAAA

2564/2825
FIGURE 2277

MFYSGLLTEGGRKETDMREAASLRQQRRMKQAVQFIHKDSADLLPLDGLKKLGSSKDMQPHNILQRRLMETNLSK
LRSGPRVPWASKTNKLNQAKSEGLKKSEEDDMILVSCQCAGKDVKALVDTGCLYNLISLACVDRLGLKEHVKSHK
HEGEKLSLPRHLKVVGQIEHLVITLGSLRLDCPAAVVDDNEKNLSLGLQTLRSLKCIINLDKHRLIMGKTDKEEI
PFVETVSLNEDNTSEA

FIGURE 2278A

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AAAATACTTGCCCTTTGGAAAAAAATCATTCTGGCGTCCACATTCAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCCCGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACTTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCTTGGAGGCAGAAGCCGCTTTGATTACTCAGAAC
ACCAAATCAGTCTCCATTTTCTTGACTCAGACTACACCCAAGAGATTGCTTCCTTCCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATACCATTCAACTTGAATCTTCCTTACCCAC
TTTGTATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAACTTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTTCTTCCCATCTGAGGCATGGATTTATTTTCTTTTTAAAGAA
ATCCAAATTTTTAAAAGAAGGGATCTTATTTTTAAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCCTTTTTTAAAAAAAGGAAAGAAAGAGTGTTTGTCTT
ACAGGCTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAACTAGTGTGACTGTCTTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCCTAAAGAAAAGCCTTTCACCCTTCGGAAGATCTTTTCATTTTCATTTTTCTTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTTAAAAGCGTTTCACTAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTTTATTTAATGAATTTACTCATATTTAAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCCTTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTTTGACCTGTTTCACAGGCATC
TCCTTTGTGGACTCATTGTGTCTCTTCCTTAGGCTAATAGTCACCATTTATCATGGACGGTTGTCATGAGTGTTG
AAGCACACTTAACCTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCCTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAAACTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTATAAACTTCTTATTGAGATCAGATGACTTCTGAATAGCATTTGCTGTATTTTTCCAAGGTAAAGA
ATATCTTTTTCAGATTTTTCTTTCTTTCTTTA**ATG**TCAGAAATAGAAGAAATCTTTTCTACCGACCTTGTGCCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTTCCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAAACACATAAACGACATACTTTGTTTTGTGGGACAACTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTCGTTCCATATTGTATCCCAAACCAACTGATTTTAAACTCTACAGAGATGCCTACTTGTTTCTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACTTCCTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAAATCGGTATTTTCTGTATCAGTCCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTTTGCTTTGACAAGACTGGAACTCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAATGCACGATTTCTTTCACCAGAAGAAATGTGTGCAATGAGATGTTGGTAAAATCCCAGTTTGTTGCTTGTA
TGGCTACTTGTCATTCACTTACAAAAATTGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAATGTTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCCACAGTGGTTC
GTCCTCCCAAACAACTGCTTCCTGAATCTACCCCTGCAGGAAACCAAGAAATGGAGCTGTTTGAACTTCCAGCTA
CTTATGAGATAGGAATTGTTCGCCAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCCTGTCGATTTTCAAAACGTTTTGGAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGCACACAGAA
AATTGGAGTCAAAACTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAAATTAAAGCAAGAACCCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACA
TTCGCACCGTCATGGTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGCAATGAATGGAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCCTAAGTTGATGTTGCATGGCACCGTGTTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGA
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FIGURE 2278B

AGAGGGCACACGGAGGCATTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTT**TAA**GTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTGACACCC
CCCCCCCACTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTAGGTGGCTGGAAAAGCATTTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTTATTCACGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTCACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTATAGTAGTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAAACTGTTGCAGTTTTTACTCTATTTATTTTGTTCCCCATGTTTATGAAAGTCCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAATATTCATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTTACACATTTTTAAT
GTATTAAAATTTGGTAATTATGTGTACATTAAATTAATAAAAGTTACTTCTAGTTATGATTTGTGAATTCCCTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTAAAATTGTATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTCATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAAATAAAAATTTTAATGAATGAAATAA

FIGURE 2279

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MSEIEEIFSTDLVPGDVMVIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLLCLVAVAGIGFIY
TIINSILNEVQVGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMFEAIGWILEEATE
EETALHNRIMPTVVRPPKQLLPESTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNISRDAIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMVTGDSMLTAVSVARDCGMILPQDKVIIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTRYHFAMNGKSFSVILEHFQDLVPKLMLHGTVFARMAPDQKTQLIEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFFSDFHNCAFYSLV
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FIGURE 2280

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GGAGTTGAGAATTAGGGAGGAGGTGGTAGAGTCCGGGTAGTGAGCGGAGGGACAGGAAGGGTAGGGCAAGAAAGG
GAGAGGGGACAGGAGGGAAGGGTGGGCCAAAGCGGTGAGAAAGGAGGGCCAGCCAGTTGGGTGGGGGAGAGGGCC
GAGGCCCGGGGGCAGGAGTGCAGGGCTCTGAGGCGGGGAGAGGAGAGGAGAGAAGAGCCGCGGGGGGCCCAGCCC
GGAGCCAGGATGCCCGCGCCGCGCGCCCGGGAGCAGCCCCGCGTGCCCGGGGAGCGCCAGCCGCTGCTGCCTCGC
GGTGCGCGGGGCCCTCGACGGTGGCGGCGGGCGGCGGGCGCGGCCGTGCTGCTGGTGGAGATGCTGGAGCGCGCC
GCCTTCTTCGGCGTCACCGCCAACCTCGTGCTGTACCTCAACAGCACCAACTTCAACTGGACCGGCGAGCAGGCG
ACGCGCGCCGCGCTGGTATTCCTGGGCGCCTCCTACCTGCTGGCGCCCGTGGGCGGCTGGCTGGCCGACGTGTAC
CTGGGCCGCTACCGCGCGGTCGCGCTCAGCCTGCTGCTCTACCTGGCCGCCTCGGGCCTGCTGCCCGCCACCGCC
TTCCCCGACGGCCGCAGCTCCTTCTGCGGAGAGATGCCCGCGTCGCCGCTGGGACCTGCCTGCCCCTCGGCCGGC
TGCCCGCGCTCCTCGCCCAGCCCCTACTGCGCGCCCGTCCTCTACGCGGGCCTGCTGCTACTCGGCCTGGCCGCC
AGCTCCGTCCGGAGCAACCTCACCTCCTTCGGTGCCGACCAGGTGATGGATCTCGGCCGCGACGCCACCCGCCGC
TTCTTCAACTGGTTTTACTGGAGCATCAACCTGGGTGCTGTGCTGTCGCTGCTGGTGGTGGCGTTTATTCAGCAG
AACATCAGCTTCCTGCTGGGCTACAGCATCCCTGTGGGCTGTGTGGGCCTGGCATTTTTCATCTTCCTCTTTGCC
ACCCCCGTCTTCATCACCAAGCCCCCGATGGGCAGCCAAGTGTCCTCTATGCTTAAGCTCGCTCTCCAAAACTGC
TGCCCCCAGCTGTGGCAACGACACTCGGCCAGAGACCGTCAATGTGCCCGCGTGCTGGCCGACGAGAGGTCTCCC
CAGCCAGGGGCTTCCCCGCAAGAGGACATCGCCAACTTCCAGGTGCTGGTGAAGATCTTGCCCGTCATGGTGACC
CTGGTGCCCTACTGGATGGTCTACTTCCAGATGCAGTCCACCTATGTCCTGCAGGGTCTTCACCTCCACATCCCA
AACATTTTCCCAGCCAACCCGGCCAACATCTCTGTGGCCCTGAGAGCCCAGGGCAGCAGCTACACGATCCCGGAA
GCCTGGCTCCTCCTGGCCAATGTTGTGGTGGTGCTGATTCTGGTCCCTCTGAAGGACCGCTTGATCGACCCTTTA
CTGCTGCGGTGCAAGCTGCTTCCCTCTGCTCTGCAGAAGATGGCGCTGGGGATGTTCTTTGGTTTTACCTCCGTC
ATTGTGGCAGGAGTCCTGGAGATGGAGCGCTTACACTACATCCACCACAACGAGACCGTGTCCCAGCAGATTGGG
GAGGTCCTGTACAACGCGGCACCACTGTCCATCTGGTGGCAGATCCCTCAGTACCTGCTCATTGGGATCAGTGAG
ATCTTTGCCAGCATCCCAGGCCTGGAGTTTGCCTACTCAGAGGCCCCGCGCTCCATGCAGGGCGCCATCATGGGC
ATCTTCTTCTGCCTGTCGGGGGTGGGCTCACTGTTGGGCTCCAGCCTAGTGGCACTGCTGTCCTTGCCCGGGGGC
TGGCTGCACTGCCCCAAGGACTTTGGGAACATCAACAATTGCCGGATGGACCTCTACTTCTTCCTGCTGGCTGGC
ATTCAGGCCGTCACGGCTCTCCTATTTGTCTGGATCGCTGGACGCTATGAGAGGGCGTCCCAGGGCCCAGCCTCC
CACAGCCGTTTCAGCAGGGACAGGGGCTGAACAGGCCCTATTCCAGCCCCCTTGCTTCACTCTACCGGACAGACG
GCAGCAGTCCCAGCTCTGGTTTCCTTCTCGGTTTATTCTGTTAGAATGAAATGGTTCCCATAAATAAGGGGCATG
AGCCCTTCCTCCC
```

FIGURE 2281

MPAPRAREQPRVPGERQPLLPRGARGPRRWRRAAGAAVLLVEMLERAAFFGVTANLVLYLNSTNFNWTGEQATRA
ALVFLGASYLLAPVGGWLADVYLGRYRAVALSLLLYLAASGLLPATAFPDGRSSFCGEMPASPLGPACPSAGCPR
SSPSPYCAPVLYAGLLLLGLAASSVRSNLTSFGADQVMDLGRDATRRFFNWFYWSINLGAVLSLLVVAFIQQNIS
FLLGYSIPVGCVGLAFFIFLFATPVFITKPPMGSQVSSMLKLALQNCCPQLWQRHSARDRQCARVLADERSPQPG
ASPQEDIANFQVLVKILPVMVTLVPYWMVYFQMQSTYVLQGLHLHIPNIFPANPANISVALRAQGSSYTIPEAWL
LLANVVVVLILVPLKDRLIDPLLLRCKLLPSALQKMALGMFFGFTSVIVAGVLEMERLHYIHHNETVSQQIGEVL
YNAAPLSIWWQIPQYLLIGISEIFASIPGLEFAYSEAPRSMQGAIMGIFFCLSGVGSLLGSSLVALLSLPGGWLH
CPKDFGNINNCRMDLYFFLLAGIQAVTALLFVWIAGRYERASQGPASHSRFSRDRG

FIGURE 2282

AACATTCCTGCAAATGGTTTCAATATATGCAGATGTCTCGATATAGGAATGAAATTACGTCTTTGGAACAACTTA
AATAAGTCAAATATACTTGGAGCTTTAAAAATTAAAAGGAGAGAGATTCGAGCACCTTTTCTGCTGCC**ATG**ACAA
CCATGCAAGGAATGGAACAGGCCATGCCAGGGGCTGGCCCTGGTGTGCCCCAGCTGGGAAACATGGCTGTCATAC
ATTCACATCTGTGGAAAGGATTGCAAGAGAAGTTCTTGAAGGGAGAACCCAAAGTCCTTGGGGTTGTGCAGATTC
TGACTGCCCTGATGAGCCTTAGCATGGGAATAACAATGATGTGTATGGCATCTAATACTTATGGAAGTAACCCTA
TTTCCGTGTATATCGGGTACACAATTTGGGGGTCAGTAATGTTTATTATTTCAGGATCCTTGTCAATTGCAGCAG
GAATTAGAACTACAAAAGGCCTGGTCCGAGGTAGTCTAGGAATGAATATCACCAGCTCTGTACTGGCTGCATCAG
GGATCTTAATCAACACATTTAGCTTGGCGTTTTATTCATTCCATCACCCTTACTGTAACTACTATGGCAACTCAA
ATAATTGTCATGGGACTATGTCCATCTTAATGGGTCTGGATGGCATGGTGCTCCTCTTAAGTGTGCTGGAATTCT
GCATTGCTGTGTCCCTCTCTGCCTTTGGATGTAAAGTGCTCTGTTGTACCCCTGGTGGGGTTGTGTTAATTCTGC
CATCACATTCTCACATGGCAGAAACAGCATCTCCCACACCACTTAATGAGGTT**TGA**GGCCACCAAAGATCAACA
GACAAATGCTCCAGAAATCTATGCTGACTGTGACACAAGAGCCTCACATGAGAAATTACCAGTATCCAACTTCGA
TACTGATAGACTTGTTGATATTATTATTATATGTAATCCAATTATGAACTGTGTGTGTATAGAGAGATAATAAAT
TCAAAATTATGTTCTCATTTTTTTCCCTGGAACTCAATAACTCATTTCACTGGCTCTTTATCGAGAGTACTAGAA
GTTAAATTAATAAATAATGCATTTAATGAGGCAACAGCACTTGAAAGTTTTTCATTCATCATAAGAACTTTATAT
AAAGGCATTACATTGGCAAATAAGGTTTGGAAGCAGAAGAGCAAAAAAAGATATTGTTAAAATGAGGCCTCCAT
GCAAACACATACTTCCCTCCCATTTATTTAACTTTTTTTTCTCCTACCTATGGGGACCAAAGTGCTTTTTCCT
TCAGGAAGTGGAGATGCATGGCCATCTCCCCCTCCCTTTTTCCTTCTCCTGCTTTTCTTTCCCCATAGAAAGTAC
CTTGAAGTAGCACAGTCCGTCCTTGCATGTGCACGAGCTATCATTTGAGTAAAAGTATACATGGAGTAAAAATCA
TATTAAGCATCAGATTCAACTTATATTTTCTATTTCATCTTCTTCCTTTCCCTTCTCCCACCTTCTACTGGGCAT
AATTATATCTTAATCATATATGGAAATGTGCAACATATGGTATTTGTTAAATACGTTTGTTTTTATTGCAGAGCA
AAAATAAATCAAATTAGAAGCAATAAAAAAAAAAAAAAAAAAAA

2571/2825
FIGURE 2283

MTTMQGMEQAMPGAGPGVPQLGNMAVIHSHLWKGLQEKFLKGEPKVLGVVQILTALMSLSMGITMMCMASNTYGS
NPISVYIGYTIWGSVMFIISGSLSIAAGIRTTKGLVRGSLGMNITSSVLAASGILINTFSLAFYSFHHPYCNYYG
NSNNCHGTMSILMGLDGMVLLLSVLEFCIAVSLSAFGCKVLCCTPGGVVLILPSHSHMAETASPTPLNEV

FIGURE 2284

GTGCTCTGCACCCAGCTCCTTCCCGGGCGCGCACACGCGCTTCCTCTCTTGAGCTCCCGGGCGTCCGGAGGCGAA
GGTCCCGGAGCGTTCACGAGAATCCGGGTCCCGGCGAGTCCGGGGTCCGCTCCTCCAGCTGCGCCCAGGGCGCAC
GAGCCGGCCAGCCTCGGGGAGAGGGCGCGGGGGCGCTGGGGGTTCTTACGGGAAG**ATG**AGGAAGCCCGACAGCAA
GATCGTGCTCCTGGGGGACATGAACGTGGGGAAGACGTCGCTGCTGCAGCGGTATATGGAGCGGCGCTTCCCGGA
CACGGTCAGCACGGTGGGCGGCGCCTTCTACCTGAAGCAGTGGCGCTCCTACAACATCTCCATCTGGGACACCGC
AGGGCGGGAGCAGTTCCACGGCCTGGGATCCATGTACTGCCGGGGGGCGGCCGCCATCATCCTCACCTATGATGT
GAATCACCGGCAGAGCCTGGTGGAGCTGGAGGACCGGTTCCTGGGCCTGACAGACACAGCCAGCAAAGACTGCCT
CTTCGCCATCGTGGGGAACAAAGTGGACCTCACTGAGGAGGGGGCCTTGGCGGGCCAGGAGAAGGAAGAGTGCAG
TCCCAATATGGACGCTGGGGACCGTGTCTCCCCAAGGGCACCTAAGCAGGTGCAGCTGGAGGATGCGGTGGCCCT
TTATAAAAAGATCCTCAAGTACAAGATGCTGGATGAGCAGGATGTGCCGGCCGCTGAGCAAATGTGCTTTGAGAC
CAGCGCCAAGACCGGCTACAATGTGGACCTCCTGTTTGAGACCCTCTTTGACCTGGTGGTGCCAATGATCTTACA
GCAGAGAGCTGAGAGGCCGTCACACACAGTGGATATATCCAGTCATAAGCCACCCAAGAGGACCAGATCTGGGTG
TTGTGCC**TGA**CTTTCGAGGGCCTCCTGGACTCAGACTGTGCATGTTGGGAAGGGGTCTGACCAGGCAAGCTGTGA
TCTGAAAGGAGCAAGGAACAGCAAGGAATTATTTTCCAGAATGACACCCGCAGCAGAATGTTGGAGTGGAAATGA
TGGCTGGCTATGAAGAGGAGGTCAACGTGTGTGGTCTCCTCAGTCTCTGTCAGAGGGGTGGGGAGGTGGGAAACA
GGAATCCTCTGCAAAGCCCAATCTGCAGAGTCGAGACCCCTGGTGCTCTCTGCCCCGCTGCCTGGCACTGGTCCT
TTGCAGCCAGCCACCAACGGCCCCCTTGCCCTTGCAGAGGCAGAAGCCTGCGTCTGCACCTGCACCTCTGACCGT
TTCAGCACCCTGGGTTGTTACCACGTCCTACAACTCTGACATTTCTTGTTCTCAAGCGTTTCTCTTCACTGTGAG
TTGTCTTTGGTCCTCCCACTTGGTACTTGTATCTTGATGCTTTATAATCCTGACTCTCGACGTGTTCATTTATAC
AAAATCAGGAATAACTTTGTTTTTATACTGATTGCAGCAATGTTGGCTACATGTATTATTAAAGAGGATTTTTGG
AACAACTTAAAAAAAAAAAAAAAAAAAAAA

2573/2825
FIGURE 2285

MRKPDSKIVLLGDMNVGKTSLLQRYMERRFPDTVSTVGGAFYLKQWRSYNISIWDTAGREQFHGLGSMYCRGAAA
IILTYDVNHRQSLVELEDRFLGLTDTASKDCLFAIVGNKVDLTEEGALAGQEKEECSPNMDAGDRVSPRAPKQVQ
LEDAVALYKKILKYKMLDEQDVPAAEQMCFETSAKTGYNVDLLFETLFDLVVPMILQQRAERPSHTVDISSHKPP
KRTRSGCCA

FIGURE 2286

TTTAGTTTAAAAAGAAAAAATGCAGGGTGATTTCTTATTATTATATGTTAGCCTGCATGGTTAAATTCGACAACT
TGTAACTCTATGAACTTAGAGTTTACTATTTTAGCAGCTAAAAATGCATCACATATTCATATTGTTCAATAATGT
CCTTTCATTTGTTTCTGATTGTTTTCATCCTGATACTGTAGTTCACTGTAGAAATGTGGCTGCTGAAACTCATTT
GATTGTCATTTTTATCTATCCTATGTTAAATGGTTTGTTTTTACAAAATAATACCTTATTTTAATTGAAACGTTT
ATGCTTTTGCCAACACATCTTGTAACTTAATATACTAGATGTTAAGGTTGTTAATGTACAAAAAAAAAACCCTTA
TACTCACCTGCGTTTTCATTTGTTTGACATTTGTCTATTATTGGATTTCATTATCATATGAACTTGTCAGTGGGA
AACAAACTGTCTAAAAATTTTTCTCTTACGTTTAACATACAATCATGTGAAATTTAGGCAGAGTTCGATAAATTA
CTGGCAAAAACAAACTCTTTTATAAAGATTTTCTAATGTTGACTTTAATACTCTAACATGGTACAAACCAAATG
GTAAAATCCCAAGTCATTTCTTTTTTCATCTCTATTCAGCAACAGAATTAAGTGG**ATG**AAGATATTCTACTGTGC
ATTAAATCTTGAACTTTATAAAACATGTACAAAAATTGTACAAGATAAGTTCCACCTGGTAATGTCTTTCCCTAA
TACAGGGTTGCGCTTGCATTGGACCCTAGGGATTTGCACTAAAATTATATCAAGGTCTCAGATGAGCTTAGTGCA
CAAGCACTATCACTTTAAATACTATTATTTGCTACCACAGCAACTATATATTTCCATAGCTTTTGGCTGGGGGCG
GGGGACATTTTTATTACAACTTGAAATTGCTTTGCTGGTTTCATATTTATTTGTTGTATTTAAAAAATACATTGT
TGTAAGAGTGATTTTTTCAATATATTTTATTCCTGGGGGGGATCATGCTACACTCTCAAAAGAAAAT**TAA**GAAAT
CATTCAGATCATCCCCCCTTTTTAAGTAGTGTGAATTGCAAAACCCAACATATTTTTTTTTACTGTCAGTTGCGG
TTTATTTATTCTTTAACTGTCTGTTTTAGTAGTTTAATGATTATGAAAAATGTATCGTGTGTGATTTGCTATTT
ATTAAATTTTAAGTACTTTGCTGAATGTCATTTTAAAGCATGTTTGAAGTCTTGTGTATTTGTCTGTGTTAATGC
TGTCAGGAGGAACTGACTAAGATGTTTTAATATGTATCAAAAATTAAAATGATTTTTTTT

FIGURE 2287

MKIFYCALNLELYKTCTKIVQDKFHLVMSFPNTGLRLHWTLGICTKIISRSQMSLVHKHYHFKYYYLLPQQLYIS
IAFGWGRGTFLLQLEIALLVSYLFVVFKKYIVVRVIFSIYFIPGGDHATLSKEN

FIGURE 2288

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GGGGAGCCTTTGGAGAGAAGGGAGAGGGCCCGTCGGACAGCCACAGCGGCCAGCGCAGCGGCAGCGGCGGCGGCA
CCACCATCACCGCTCGCACCCCAGCCGCCCGGCCCGCGACCAGGCAGCGGCGGCCGCCGGCGGGATCGGAGGAGG
CGGCGAAGCGACTCCGATCCTCCCTCTGAGCCTTGCTCAGCTCTGCCCCGCGCCTCCCGGGCTCCGGTCCGCGCG
GCGGGGTCCCTGCTCCTGCGCCCCGGGCGCGCTTCCCGGACACCCCGGTCCCCGCAGCCAGGACAAAGCC**ATG**AA
GCCAGCGCTGCTGGAAGTGATGAGGATGAACAGAATCTGCCGGATGGTGCTGGCCACTTGCTTGGGATCCTTTAT
CCTGGTCATCTTCTATTTCCAAAGTATGTTGCACCCAGTCATGCGGAGGAATCCCTTTGGTGTGGACATCTGCTG
CCGGAAGGGGTCCCGAAGCCCCCTGCAGGAACTCTACAACCCAATCCAGCTGGAGCTCTCAAACACTGCTGTCCT
GCACCAGATGCGGCGGGACCAGGTGACAGACACGTGCCGAGCCAACAGCGCCACAAGCCGTAAGCGGAGGGTGCT
GACCCCCAACGACCTGAAGCACTTGGTGGTGGATGAGGACCACGAGCTCATCTACTGCTACGTGCCCAAGGTGGC
CTGCACCAACTGGAAGCGGCTCATGATGGTCCTGACCGGGCGGGGGAAGTACAGCGACCCCATGGAGATCCCGGC
CAACGAGGCACACGTCTCCGCCAACCTGAAGACCCTGAACCAGTACAGCATCCCAGAAATCAACCACCGCTTGAA
AAGCTACATGAAGTTCCTGTTTGTCCGGGAGCCCTTCGAGAGGCTAGTGTCCGCCTACCGCAACAAGTTCACCCA
GAAGTACAACATCTCCTTCCACAAGCGGTACGGCACCAAGATCATCAAACGCCAGCGGAAGAACGCCACCCAGGA
GGCCCTGCGCAAAGGGGACGATGTCAAATTCGAGGAGTTTGTGGCCTATCTCATCGACCCACACACCCAGCGGGA
GGAGCCTTTCAACGAACACTGGCAAACCGTCTACTCACTCTGCCATCCCTGCCACATCCACTATGACCTCGTGGG
CAAGTACGAGACACTGGAAGAGGATTCTAATTACGTCCTGCAGCTGGCAGGAGTGGGCAGCTACCTGAAGTTCCC
CACCTATGCAAAGTCTACGAGAACTACTGATGAAATGACCACAGAATTCTTCCAGAACATCAGCTCAGAGCACCA
AACGCAGCTGTACGAAGTCTACAAACTCGATTTTTTAATGTTCAATTACTCAGTGCCAAGCTACCTGAAATTGGA
A**TAA**AGGGGGTGGGGAGAGGGAGAGAATCATGCTTTTTAATTTAAGATTTTTATTTGTCAAAAGAATTATATGGA
TATTGGGTTATTTTGTAAATTAATATTTCTTTGGGGATGATGCTGCGAGCAGCATAGTGAGAATTATTTAAAATC
CTTCGTAGGGAAGGACAGCTGTCTTTGCAGGGGAAATAGGATGGGTCGTTCTTGTCTGTAGAAGTGAATACTGCA
ACACTGTCTCAAAGGTTTCTTGTGTTCTGGTGAATTCCATGAATTGTGCATTCCATAAATTCTAATTAATATTAT
TTATAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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2577/2825
FIGURE 2289

MKPALLEVMRMNRICRMVLATCLGSFILVIFYFQSMLHPVMRRNPFGVDICCRKGSRSPLQELYNPIQLELSNTA
VLHQMRRDQVTDTCRANSATSRKRRVLTPNDLKHLVVDEDHELIYCYVPKVACTNWKRLMMVLTGRGKYSDPMEI
PANEAHVSANLKTLNQYSIPEINHRLKSYMKFLFVREPFERLVSAYRNKFTQKYNISFHKRYGTKIIKRQRKNAT
QEALRKGDDVKFEEFVAYLIDPHTQREEPFNEHWQTVYSLCHPCHIHYDLVGKYETLEEDSNYVLQLAGVGSYLK
FPTYAKSTRTTDEMTTEFFQNISSEHQTQLYEVYKLDFLMFNYSVPSYLKLE

FIGURE 2290

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TTTGCGCTCGGGGAATTAAAAGAGGGGAAAAAAAGCCCGAAGAAAACTCACGCCCCAAACAAAACGCAAGGAGAG
GAGGGCGCGCGGCCTGCAGCCCTCGCCCGCGTCCCCGGCCGCGGCGTGATGCGCGCGGACCAGCCCGCGACGCCC
GGGCTGCCGCTGTCCCCGCACCTGGACGCTGGCGCGGTGGCCGCGCCCCAGCCTCGATCGCTCGCCGCGGCGACT
CGGCCCCAGGCTTCCGGCGCCGGTGGGGGCCCTCGCTCTCCATGGGGCTGAGGGACTGGCTGAGAACCGTGTGCT
GCTGCTGCCGGTGCGAGTGCTTGGAGGAGCGCGCCCTGCCTGAGAAGGAGCCCCTCGTCAGTGATAACAATCCAT
ATTCCTCATTTGGAGCAACTCTGGTGAGGGATGATGAGAAGAATTTATGGAGTATGCCCCATGATGTGTCCCACA
CAGAGGCAGACGACGACAGAACCCTGTACAATTTGATAGTCATTCGTAATCAGCAGGCCAAAGACTCAGAGGAGT
GGCAGAAGCTCAACTATGATATCCATACCCTGCGGCAGGTTCGAAGGGAAGTAAGAAACAGATGGAAGTGCATCT
TAGAAGATTTAGGTTTTCAAAAGGAAGCTGACTCTTTGTTGTCAGTGACTAAACTCAGCACCATCAGTGATTCTA
AAAACACAAGGAAAGCTCGAGAGATGTTGTTAAAACTGGCTGAAGAAACCAGTATTTTCCCAACAAGTTGGGAGC
TCTCAGAGAGATATCTCTTTGTTGTGGACCGTCTCATTGCACTTGATGCTGCAGAAGAGTTCTTTAAGCTTGCTC
GTCGAACTTACCCCAAGAAGCCTGGGGTTCCATGCCTGGCAGATGGCCAGAAAGAACTGCACCTGTGGGGGGACC
TCTCATGCAGACTTGCACATATGCAGGGAGTATTGCACTGAAGATCTTTGCTGGACCTTCTTCTCTTCAGAAGAT
AATTTTCAAAAGGGAGCAATGCTGTGAATGCAGCTTGCTTCTCTCTACAGATTGAGAAGTCCAGCTTCAAAAGTT
ACTTGCCACTTAAGCAAGGAACTTGTCAAGAGATCATGGTTCATGTTACTGAAAAGACTTTAAGGATTTGTAAGG
TTAATCCATAGATTGCTGAGAACAATGGAAATATTTTTATTTTTACAGATTTTGCACTTCTGAATTCAGGTTAAA
AACTAACTTGTATTTAGTCTGCTTAGAGGACTGTGACTTGAAAATTTTTATATACCAATGAGCTTTTTGGTAGCG
TCCACAATGTTTAAAATATTTCATAGGCGAGATCCGTGTTCTCCATTTATTAATGCATTGTAGACCAATTTAACT
GCTGTGTTTCAGGAAAATTCTTCCTAGTTTAATAAGCAAGCTAAAAGTTTTATTTTTTATATTTAGTGCTTAATC
TTTGCCTCATGTTATGTAAAATTAGCCTGCAGATATTTTCTCTCAATTCTGTAGACTCTCGCAAGATAAACATTC
AAACAGTGAAACAAACAATAAAATAAATAAACCT
```

FIGURE 2291

MGLRDWLRTVCCCCRCECLEERALPEKEPLVSDNNPYSSFGATLVRDDEKNLWSMPHDVSHTEADDDRTLYNLIV
IRNQQAKDSEEWQKLNYDIHTLRQVRREVRNRWKCILEDLGFQKEADSLLSVTKLSTISDSKNTRKAREMLLKLA
EETSIFPTSWELSERYLFVVDRLIALDAAEEFFKLARRTYPKKPGVPCLADGQKELHLWGDLSCRLAHMQGVLH

FIGURE 2292

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GAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCACATGGGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCTCCCACGCTCCTGCCGCTGTCTCCCACGTCCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGACCGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
GTTCTAGCTATTGCCATGGTACGTTTTTATATGGAAAAAGGAACACACAGAGGTTTATATAAAAGTATTCAGAAG
ACACTTAAATTTTTCCAGACATTTGCCTTGCTTGAGATAGTTCACTGTTTAATTGGAATTGTACCTACTTCTGTG
ATTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
AGCCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTTATCATCTTATATCCTGTTGGA
GTTGCTGGTGAACTTCTTACAATATACGCTGCCTTGCCGCATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
CCTAACAAATACAATGTCTCTTTTGACTACTATTATTTTCTTCTTATAACCATGGCATCATATATACCTTTGTTT
CCACAACTCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
TAAATGATCTCTGCAAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTAATAACAAGAA
TAAACAACTTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

FIGURE 2293

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGVQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLLDHLPYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMFSIRLPNKYNVSFDYYYFLLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

FIGURE 2294

AGAAACCGTTGATGGGACTGAGAAACCAGAGTTAAAACCTCTTTGGAGCTTCTGAGGACTCAGCTGGAACCAACG
GGCACAGTTGGCAACACCATC**ATG**ACATCACAACCTGTTCCCAATGAGACCATCATAGTGCTCCCATCAAATGTC
ATCAACTTCTCCCAAGCAGAGAAACCCGAACCCACCAACCAGGGGCAGGATAGCCTGAAGAAACATCTACACGCA
GAAATCAAAGTTATTGGGACTATCCAGATCTTGTGTGGCATGATGGTATTGAGCTTGGGGATCATTTTGGCATCT
GCTTCCTTCTCTCCAAATTTTACCCAAGTGACTTCTACACTGTTGAACTCTGCTTACCCATTCATAGGACCCTTT
TTTTTTATCATCTCTGGCTCTCTATCAATCGCCACAGAGAAAAGGTTGACCAAGCTTTTGGTGCATAGCAGCCTG
GTTGGAAGCATTCTGAGTGCTCTGTCTGCCCTGGTGGGTTTCATTATCCTGTCTGTCAAACAGGCCACCTTAAAT
CCTGCCTCACTGCAGTGTGAGTTGGACAAAAATAATATACCAACAAGAAGTTATGTTTCTTACTTTTATCATGAT
TCACTTTATACCACGGACTGCTATACAGCCAAAGCCAGTCTGGCTGGATCTCTCTCTCTGATGCTGATTTGCACT
CTGCTGGAATTCTGCCTAGCTGTGCTCACTGCTGTGCTGCGGTGGAAACAGGCTTACTCTGACTTCCCTGGGGTG
AGTGTGCTGGCCGGCTTCACT**TAA**CCTTGCCTAGTGTATCTTATCCCTGCACTGTGTTGAGTATGTCACCAAGAG
TGGTAGAAGGAACAACCAGCCAATCACGAGATCACATGGGAGGGCATTTGCATTGTGATGGAAGACAGAGAAGAA
AAGCAGATGGCAATTGAGTAGCTGATAAGCTGAAAATTCACTGGATATGAAAATAGTTAATCATGAGAAATCAAC
TGATTCAATCTTCCTATTTTGTCAGCGAAGGGAATGAGACTCTGGGAAGTTAAATGACTGGCCTGGCATTATGCT
ATGAGTTTGTGCCTTTGCTGAGGACACTAGAACCTGGCTTGCCTCCCTTATAAGCAGAAACAATTTCTGCCACAA
CCACTAGTCTCTTTAATAGTATTGACTTGGTAAAGGGCATTTACACACGTAACTGGATCCAGTGAATGTCTTATG
CTCTGCATTTGCCCCTGGTGATCTTAAAATTCGTTTGCCTTTTTAAAGCTATATTAAAAATGTATTGTTGAATCA
AAAAAAAAAAAAA

2583/2825
FIGURE 2295

MTSQPVPNETIIVLPSNVINFSQAEKPEPTNQGQDSLKKHLHAEIKVIGTIQILCGMMVLSLGIILASASFSPNF
TQVTSTLLNSAYPFIGPFFFIISGSLSIATEKRLTKLLVHSSLVGSILSALSALVGFIILSVKQATLNPASLQCE
LDKNNIPTRSYVSYFYHDSLYTTDCYTAKASLAGSLSLMLICTLLEFCLAVLTAVLRWKQAYSDFPGVSVLAGFT

FIGURE 2296

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GCTTCCCGGAAGTGGCGGCGCGGTCAGGGCTGGCCTTGGCTTCAGCTGCGGTTTTGGGGTCCCGGACTCTGGGAT
CGGCGGCGCTATGAGTTCTTTCGAGGGGCAGATGGCCGAGTATCCAACTATCTCCATAGACCGCTTCGATAGGGA
GAACCTGAGGGCCCGCGCCTACTTCCTGTCCCACTGCCACAAAGATCACATGAAAGGATTAAGAGCCCCTACCTT
GAAAAGAAGGTTGGAGTGCAGCTTGAAGGTTTATCTATACTGTTCACCTGTGACTAAGGAGTTGTTGTTAACGAG
CCCGAAATACAGATTTTGGAAGAAACGAATTATATCTATTGAAATCGAGACTCCTACCCAGATATCTTTAGTGGA
TGAAGCATCAGGAGAGGTTTTTATTTCAGGGCAATAATGGAACTGTCCTGTACACAGGAGACTTCAGATTGGCGC
AAGGAGAAGCTGCTAGAATGGAGCTTCTGCACTCCGGGGGCAGAGTCAAAGACATCCAAAGTGTATATTTGGATA
CTACGTTCTGTGATCGAAGATTTTACCAAATTCCAAGTCGGGAGGAGTGTTTAAGTGGAGTCTTAGAGCTGGTCC
GAAGCTGGATCACTCGGAGCCCGTACCATGTTGTGTGGCTGAACTGCAAAGCGGCTTATGGCTATGAATATCTGT
TCACCAACCTTAGTGAAGAATTAGGGGTCCAGGTTCATGTGAATAAGCTAGACATGTTTAGGAACATGCCTGAGA
TCCTTCATCATCTCACAACAGACCGCAACACTCAGATCCATGCATGCCGGCATCCCAAGGCAGAGGAATATTTTC
AGTGGAGCAAATTACCCTGTGGAATTACTTCCAGAAATAGAATTCCACTCCACATAATCAGCATTAAGCCATCCA
CCATGTGGTTTGGAGAAAGGAGCAGAAAAACAAATGTAATTGTGAGGACTGGAGAGAGTTCATACAGAGCTTGTT
TTTCTTTTCACTCCTCCTACAGTGAGATTAAAGATTTCTTGAGCTACCTCTGTCCTGTGAACGCATATCCAAATG
TCATTCCAGTTGGCACAACTATGGATAAAGTTGTCGAAATCTTAAAGCCTTTATGCCGGTCTTCCCAAAGTACGG
AGCCAAAGTATAAACCACTGGGAAAACTGAAGAGAGCTAGAACAGTTCACCGAGACTCAGAGGAGGAAGATGACT
ATCTCTTTGATGATCCTCTGCCAATACCTTTAAGGCACAAAGTTCCATACCCGGAAACTTTTCACCCTGAGGTAT
TTTCAATGACTGCAGTATCAGAAAAGCAGCCTGAAAAACTGAGACAAACCCCAGGATGCTGCAGAGCAGAGTGTA
TGCAGAGCTCTCGTTTCACAAACTTTGTAGATTGTGAAGAATCCAACAGTGAAAGTGAAGAAGAAGTAGGAATCC
CAGCTTCACTGCAAGGAGATCTGGGCTCTGTACTTCACCTGCAAAAGGCTGATGGGGATGTACCCCAGTGGGAAG
TATTCTTTAAAAGAAATGATGAAATCACAGATGAGAGTTTGGAAAACTTCCCTTCCTCCACAGTGGCAGGGGGAT
CTCAGTCACCAAAGCTTTTCAGTGACTCTGATGGAGAATCAACTCACATCTCCTCCCAGAATTCTTCCCAGTCAA
CACACATAACAGAACAAGGAAGTCAAGGCTGGGACAGCCAATCTGATACTGTTTTGTTATCTTCCCAAGAGAGAA
ACAGTGGGGATATTACTTCCTTGGACAAAGCTGACTACAGACCAACAATCAAAGAGAATATTCCTGCCTCTCTCA
TGGAACAAAATGTAATTTGCCCAAAGGATACTTACTCTGATTTGAAAAGCAGAGATAAAGATGTGACAATAGTTC
CTAGTACTGGAGAACCAACTACTCTAAGCAGTGAGACACATATACCCGAGGAAAAAGTTTGCTAAATCTTAGCA
CAAATGCAGATTCCCAGAGCTCTTCTGATTTTGAAGTTCCCTCAACTCCAGAAGCTGAGTTACCTAAACGAGAGC
ATTTACAATATTTATATGAGAAGCTGGCAACTGGTGAGAGTATAGCAGTCAAAAAAAGAAAATGCTCACTCTTAG
ATACCTAAGAATTCAAAGCGTTTCAACCTAGAGCAACCACTAAAAAACCTGCACAGAGATGACAGTCAATATTAC
AATAGAGAAAATACAGTACTTAAAAATGTTCAAATAACCTGGTTGGGTGTGGTGGCTCACACTTGTAATCCCAGC
ACTTTGAGGTGGGCAATGGCTTGAGCCCAGGAGTTCGACACCAGCCTGGCCAACACAGTGAAATGTGTCTCTACT
TACAAAAAAAAAAAAAAAAAAAAAAGCCAGGCATGGTGGTGGGCTACTCTGGAGGCCCTTGAGGACCACTTGAGCC
CAGGAGATTGAGGCTGCAGTGAGCCATGACTGTGCCACTGCACCTCTAGTCTGGGTGACAGAGCAAGACCCTGTT
TAAAAAGAAAAAGGCCAGGCACGGTGGCTCATGCCTGTAATCCCAGCTACGCAGGAGGCCAAGGCAGGAGAATC
ACTTGAACCTGGGAGGTGGTGGTTGCAGTGAGCTGAGATTGTGTCATTGCACTCCAGCCTGGGCAACAAGAGCAA
AACTCTGTCTC
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FIGURE 2297

MKHQERFLFQGNNGTVLYTGDFRLAQGEAARMELLHSGGRVKDIQSVYLDTTFCDRRFYQIPSREECLSGVLELV
RSWITRSPYHVVWLNCKAAYGYEYLFTNLSEELGVQVHVNKLDMFRNMPEILHHLTTDRNTQIHACRHPKAEEYF
QWSKLPCGITSRNRIPLHIISIKPSTMWFGERSRKTNVIVRTGESSYRACFSFHSSYSEIKDFLSYLCPVNAYPN
VIPVGTTMDKVVEILKPLCRSSQSTEPKYKPLGKLKRARTVHRDSEEEDDYLFDDPLPIPLRHKVPYPETFHPEV
FSMTAVSEKQPEKLRQTPGCCRAECMQSSRFTNFVDCEESNSESEEEVGIPASLQGDLGSVLHLQKADGDVPQWE
VFFKRNDEITDESLENFPSSTVAGGSQSPKLFSDSDGESTHISSQNSSQSTHITEQGSQGWDSQSDTVLLSSQER
NSGDITSLDKADYRPTIKENIPASLMEQNVICPKDTYSDLKSRDKDVTIVPSTGEPTTLSSETHIPEEKSLLNLS
TNADSQSSSDFEVPSTPEAELPKREHLQYLYEKLATGESIAVKKRKCSLLDT

FIGURE 2298

AAAATTTGAAGACAAG**ATG**GGCACCTACTCTACAATTCTGATAAAAACAGAGGTCATCGAATGTGGGAACTACTG
TGGAGTACGCATCATTCACTCTTTGATTGCAGAGTTCTCACTGGAAGAATTGAAGAAAAGCTATCACCTGAATAA
AAGTCAAATTATGTTGGATATGCTAACTGAGAATTTGTTCTTCGATACTGGTATGGGAAAAAGTAAATTTTTGCA
AGATATGCACACACTCCTACTCACAAGACACCGCGATGAACATGAAGGTGAAACAGGAAATTGGTTTTCCCCATT
TATTGAAGCATTACATAAAGATGAAGGAAATGAAGCAGTTGAAGCTGTATTGCTTGAAAGTATCCATCGGTTCAA
CCCAAATGCATTCATTTGCCAAGCGTTGGCAAGACATTTCTACATTAAAAAGAAGGACTTTGGCAATGCTCTAAA
CTGGGCAAAACAAGCAAAAATCATAGAACCTGACAATTCTTATATCTCAGATACACTGGGTCAAGTCTACAAAAG
TAAAATAAGATGGTGGATAGAGGAAACGGAGGAAACGGGAACATTTCAGTTGATGATCTAATTGCTCTTTTGGA
TTTAGCAGAACATGCCTCAAGTGCATTCAAAGAATCTCAACAGCAAAGTGAAGATAGAGAGTATGAAGTGAAGGA
AAGATTGTATCCGAAGTCAAAAAGGCGGTATGATACTTACAATATAGCTGGTTATCAAGGAGAGATAGAAGTTGG
GCTTTACACAATCCAAATTCTCCAGCTCATTCCTTTTTTTGATAATAAAAATGAGCTATCTAAAAGATATATGGT
CAATTTTGTATCAGGAAGTAGTGATATTCCAGGGGATCCAAACAATGAATATAAATTAGCCCTCAAAAACTATAT
TCCTTATTTAACTAAATTGAAATTTTCTTTGAAAAAGTCCTTTGATTTTTTTGATGAATACTTTGTCCTGCTAAA
ACCCAGGAACAATATTAAGCAAAATGAAGAGGCCAAAACTCGGAGAAAGGTGGCTGGATATTTAAGAAATATGT
AGATATATTTGTCTCTTAGAAGAATCACAAAACAACACAGGTCTTGGATCAAAGTTCAGTGAGCCACTTCAAGT
AGAGAGATGCAGGAGAAACCTAGTAGCTTTAAAAGCAGACAAGTTTTCTGGGCTCTTGGAATATCTTATCAAAAG
TCAAGAGGATGCTATAAGCACTATGAAATGTATAGTGAACGAATATACTTTTCTCTTAGAACAATGCACTGTCAA
AATCCAGTCAAAAGAAAAGCTAAATTTCATCTTGGCCAACATTATTCTCTCCTGTATCCAACCTACCTCCAGATT
AGTAAAGCCAGTTGAAAAACTAAAAGATCAGCTTCGAGAAGTCTTGCAACCAATAGGACTGACTTATCAGTTTTC
AGAACCGTATTTTCTAGCTTCCCTCTTATTCTGGCCAGAAAATCAACAACTAGATCAACATTCTGAACAAATGAA
AGAGTATGCTCAAGCACTAAAAAAATTCTTTCAAGGGGCAATATAAACATATGCATCGTACAAAGCAACCAATTGC
ATATTTCTTTCTTGGAAAAGGTAAAAGACTGGAAAGACTTGTTCACAAAGGAAAAATTGACCAGTGCTTTAAGAA
GACACCAGATATTAATTCCTTGTGGCAGAGTGGAGATGTGTGGAAGGAGGAAAAAGTCCAAGAACTTTTGCTTCG
TTTACAAGGTCGAGCTGAAAACAATTGTTTATATATAGAATATGGAATCAATGAAAAAATCACAATACCCATCAC
TCCCGCTTTTTTAGGTCAACTTAGAAGTGGCAGAAGCATAGAGAAGGTGTCTTTTTACCTGGGATTTCCCATTGG
AGGCCCACTTGCTTATGACATTGAAATTGTT**TAA**GAGCCTGATATTCTTCCTCCAAGAATTTGATCTCAGTACCC
ATTTAATTTTTTTGGACTCAAGATCTATGCTTTAAACCGGCAAGGTTATAGATACAGCCTCTAGCTCTTCAGATC
TGTACATGCAGTATTTAATTTCCTCTTAAACATGTTATGAGTTCTACAAGGACAATAGTGAAAAAGGAAGGAGTG
AGATATATGAAAAGTAGCAAATATGTTCCTTGGTTTGGTTAACATCATTGATGACAAAATAATAAGGAGCTATGA
CTGGAGTCAGGAGAAGTTAGTGTAATAAGCTGGCTACACAGAACCCCACTACTTACCAGGCATGGATTGAAGAAG
ATTGTCTACTCAAATGGCATTTAGACATTAGAATGTCTGGGAAAATATTTCTCAAAGACAGCAAAAACCTCTCAA
ACTGAGGAGCAACATTTATTCTTACTAAGCAGATCATCAATGTATCATGTGCTTGGCACTCAAGGATCTTCCAAA
ACAGAGGACCAACCAGTCTTCTGAAGGTCATGCCCACAGAAGTCATCGGACCTTACCAAAGTAGGTTGGAGAATT
AGATTGCCTTTTCATGCAGTGAGATTCAGTTAAGCAAAAATGAAATTTGTCTCTATAGCTAATTAGCTTATCAAC
TCCCCTCCAAACAAACAATTAAAAAAAAAACATACAGACACTCAAATTCCACAAGCTAATGAACAAAAGGGACTC
TTGTGAGAAGACTAATGAGTCCCTCATCCAGAAGATGCCAATGTACTGGCAGATTAACATACAACCTATGTTTTG
AACAAAAACAACCAGCGATACGTAATCAAAATGTAATTTTCCCCTAATAAAATTATGGATATGGGCAGTCATCAA
TGGCTGCCAAAACCATTAAGTGGAAAGCTGATTAAAAAACAAAAATTTCTAATGGATTTATCAAACTGTCCCAAA
TCCTGATAAATATTAACATCACAGAGGAAGACCAGACATTATGGGCCTGGAAGTACTATAGGAGTGCACACATCA
CCCGTGACATGGTCTTGCCAAATAATTAAACCTGAATTTGATCAGGTCTCTGGATCTTATTTGCAATTCAAAAGA
AATTTTAAAAAAATCCTACTAACACCACCACAAATATGCAATCAGCAATATCCAGAAAGGGGAAATTCACAGGAC
AAAAACCTGGTTTTCTTTTTTGGTTTCTTCAACCAAAAAGAAAGAAATTGCAAAGGACCAAAAAAATGTTGGGG
AATCTATACATTATAAGGGACTTAACAACTAAAGGGCAACATATAGACTTTAGATCCTAATTTGAGCAAAATCTA
AAATCAATTATTAGGCAATCAGAAAAATTTGAACACAGACTAGATATTTGAGGATATTAAGGTACTATATTATTG
AAGATTCCATGGTTATGTTTTTTAAAGAGTTCATGCCTTTTAGAGATACATACTAAAGTATTTGTAAATAAATGA
CATGATCTAGAAAAAAAAAAAAAAAAAAA

FIGURE 2299

MGTYSTILIKTEVIECGNYCGVRIIHSLIAEFSLEELKKSYHLNKSQIMLDMLTENLFFDTGMGKSKFLQDMHTL
LLTRHRDEHEGETGNWFSPFIEALHKDEGNEAVEAVLLESIHRFNPNAFICQALARHFYIKKKDFGNALNWAKQA
KIIEPDNSYISDTLGQVYKSKIRWWIEENGGNGNISVDDLIALLDLAEHASSAFKESQQQSEDREYEVKERLYPK
SKRRYDTYNIAGYQGEIEVGLYTIQILQLIPFFDNKNELSKRYMVNFVSGSSDIPGDPNNEYKLALKNYIPYLTK
LKFSLKKSFDFFDEYFVLLKPRNNIKQNEEAKTRRKVAGYFKKYVDIFCLLEESQNNTGLGSKFSEPLQVERCRR
NLVALKADKFSGLLEYLIKSQEDAISTMKCIVNEYTFLLEQCTVKIQSKEKLNFILANIILSCIQPTSRLVKPVE
KLKDQLREVLQPIGLTYQFSEPYFLASLLFWPENQQLDQHSEQMKEYAQALKNSFKGQYKHMHRTKQPIAYFFLG
KGKRLERLVHKGKIDQCFKKTPDINSLWQSGDVWKEEKVQELLLRLQGRAENNCLYIEYGINEKITIPITPAFLG
QLRSGRSIEKVSFYLGFPIGGPLAYDIEIV

FIGURE 2300

TGACATGCCTGATCCTCTCTTTTCTGCAGTTCAAGGGAAAGACGAGATCTTGCACAAGGCACTCTGCTTCTGCCC
TTGGCTGGGGAAGGGTGGC**ATG**GAGCCTCTCCGGCTGCTCATCTTACTCTTTGTCACAGAGCTGTCCGGAGCCCA
CAACACCACAGTGTTCCAGGGCGTGGCGGGCCAGTCCCTGCAGGTGTCTTGCCCCTATGACTCCATGAAGCACTG
GGGGAGGCGCAAGGCCTGGTGCCGCCAGCTGGGAGAGAAGGGCCCATGCCAGCGTGTGGTCAGCACGCACAACTT
GTGGCTGCTGTCCTTCCTGAGGAGGTGGAATGGGAGCACAGCCATCACAGACGATACCCTGGGTGGCACTCTCAC
CATTACGCTGCGGAATCTACAACCCCATGATGCGGGTCTCTACCAGTGCCAGAGCCTCCATGGCAGTGAGGCTGA
CACCCTCAGGAAGGTCCTGGTGGAGGTGCTGGCAGACCCCCTGGATCACCGGGATGCTGGAGATCTCTGGTTCCC
CGGGGAGTCTGAGAGCTTCGAGGATGCCCATGTGGAGCACAGCATCTCCAGGAGCCTCTTGGAAGGAGAAATCCC
CTTCCCACCCACTTCCATCCTTCTCCTCCTGGCCTGCATCTTTCTCATCAAGATTCTAGCAGCCAGCGCCCTCTG
GGCTGCAGCCTGGCATGGACAGAAGCCAGGGACACATCCACCCAGTGAACTGGACTGTGGCCATGACCCAGGGTA
TCAGCTCCAAACTCTGCCAGGGCTGAGAGACACG**TGA**AGGAAGATGATGGGAGGAAAAGCCCAGGAGAAGTCCCA
CCAGGGACCAGCCCAGCCTGCATACTTGCCACTTGGCCACCAGGACTCCTTGTTCTGCTCTGGCAAGAGACTACT
CTGCCTGAACACTGCTTCTCCTGGACCCTGGAAGCAGGGACTGGTTGAGGGAGTGGGGAGGTGGTAAGAACACCT
GACAACTTCTGAATATTGGACATTTTAAACACTTACAAATAAATCCAAGACTGTCATATTTAAAAA

2589/2825
FIGURE 2301

MEPLRLLILLFVTELSGAHNTTVFQGVAGQSLQVSCPYDSMKHWGRRKAWCRQLGEKGPCQRVVSTHNLWLLSFL
RRWNGSTAITDDTLGGTLTITLRNLQPHDAGLYQCQSLHGSEADTLRKVLVEVLADPLDHRDAGDLWFPGESESF
EDAHVEHSISRSLLEGEIPFPPTSILLLLACIFLIKILAASALWAAAWHGQKPGTHPPSELDCGHDPGYQLQTLP
GLRDT

2590/2825
FIGURE 2302

CCATTTAAAGAAG**ATG**CTCGGCCTTAAAGGAAATGGCGGTGCGGTTCTGTCCATGGCCCTTCCTTTTCAGCCAGA
GCAGAGAGATTCAGAGGATTTATTGAAGAATTTTAATTCAGAGTGTGATACACACTGTGGCCTTGATACTGCACG
ACAAGAATATTTGGGTAACTCATTAAGACAGGAATCAGACTTGAAAAAATCCACCTCGTCAGATAATTCAAGCTC
TCATCATGGTGAAAATAAACAAAATCTGACTGTTGATCCCTGTGACATTTTGGGTGGAGTTGATAATCAGCAAAG
ACTGCTACACATTGTCTGGCCTCACAGGTGGGAGCATGATAAAGATCCAGAAAGCTTTTTTAAGGTATTAATGCA
TCTTAAAGACTTAGGACTCAATTTCCACGTGTCTGTACTTGGAGAAACCTTCACAGATGTCCCAGATATTTTTTC
AGAGGCCAAAAAGGCATTGGGATCTTCTGTCTTACACTGGGCTACTTACCCAGCAAAGATGACTACTTCCAAGT
ACTGTGCATGGCTGATGTTGTCATCTCAACAGCTAAGCATGAATTCTTTGGAGTGGCAATGTTGGAAGCTGTGTA
CTGTGGGTGTTACCCACTTTGTCCTAAAGATTTGGTTTATCCCGAAATATTTCCAGCTGAATATCTGTATTCTAC
ACCTGAACAGCTTTCAAAAAGGCTCCAGAATTTCTGCAAGAGACCAGATATTATAAGAAAACATCTCTATAAGGG
TGAAATCGCTCCGTTTTCTTGGGCAGCCCTACATGGTAAATTCAGGTCTCTGCTTACAACAGAGCCTAGGGAAGA
TTTG**TGA**CAGATGGGGCTAAGTCACAAACTTGCAGCCTAAGGCAGAATCTGAAGAACTTTCCAGAGTGTGCCCAT
ATTTACCTGATCAGAGAGAAAAGAAAATCTGCAGAGGAAGCTGAGCCTGGCTGCTTGTCATAGCTGACACAGAGC
CATCTGCCACAAACCTGTGGCGGCTTCAGATCTCCAATCCCTGCCACCACCCCAACTCAAATTAAATACAGATTC
CTAGAGACGTTATGATGGTTACACATGTCCTCGGCATCACATGTAGGAGACTGTTCAAAAAAAATATGTGGCCTG
TTGTATAACCGCACTCATGTATCCCATATGTGGTGCCACATTGAATTTCCGGTTGAATCCGTTTTTATCCTTTGT
ACTGGATGACATGGTGCCTGAATTCTTTCTTTTCGCCGACACGATGGCAGCCAAACTGCAGCTTCAAACGCTCAC
ACTTGGCTGGGTTTCTACCTAGGTTGCCAGGTTATCATCGGAGCCTTCTTGTGTCCTCAAAGGGCCACGAGGCCT
GAAAGGAGGATCAGAATGCTTTGGGATTAATTGGGCAGCCATCGCAGAATTGTTTGTGGGCAAAGGGCTGCTTTA
GCACTTTTCTTTTAGCAAATTAATGACTCTCAGGCACAGGGGGTTTTAAGTGAAGGTATTAATAAGAGGTCTGGC
AGGTATTCCCATGATTCACAGAGTTACATTTGCATTTAATTAATCTTAAAGTTGCAAGATAAACAGCTGTAATTC
GGACAAACATGACAAACACAGTGAAGCCAACTATCCCATAAAATGAACACTGACATACTTGTTTTAATTTTTTTC
CCAGCGTAAAAATAGAAAAATCAAAATACTCCTAACAAAACCAGTGATTTTGATAGAAATATTTCTCCAATATAC
TTGCATCCACCTACAAATATAACCTTTTCAAGATAAATCGCTTATGATTTCAATAGTCAAACTGCTGTGTTTGTT
GATGTAAAGATGTTTTGAATGGCTAGATGGTAAAATAAATTCTTAATAAAGTACCCACTGCAATTTTT

FIGURE 2303

MLGLKGNGGAVLSMALPFQPEQRDSEDLLKNFNSECDTHCGLDTARQEYLGNSLRQESDLKKSTSSDNSSSHHGE
NKQNLTVDPCDILGGVDNQQRLLHIVWPHRWEHDKDPESFFKVLMHLKDLGLNFHVSVLGETFTDVPDIFSEAKK
ALGSSVLHWGYLPSKDDYFQVLCMADVVISTAKHEFFGVAMLEAVYCGCYPLCPKDLVYPEIFPAEYLYSTPEQL
SKRLQNFCKRPDIIRKHLYKGEIAPFSWAALHGKFRSLLTTEPREDL

FIGURE 2304

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GAAAACATTTTGCTGAAAATATAAGCAAACATCGGCCTTGTCCTCCTTGTGTTCATACACTGTGGAAGCTTTTCT
CTGCCTCCTCCGTGAGAGTGCGTGGCCGGGAGACCAGAAACGTGGTCCTTTCTCTTGCCTGTGAGCTGGTGCAGA
GATGGAGGAAGAAGAATATGAACAAATTCCCCAGGAGAATCCCCCAGAAGAGCTGTCCCAGGATCCTGTGCTGGA
GCTGTCAGGAGGTCTCGCCAGAGGTGGCAGACGCTATCTGCCAAGCCATCGTCTTATCCGCCCCAGGGCCCCACG
CCGTGCTCCTGGTGACACAACTGGGCCGGTTCACGGATGAGGATCAGCAGGTGGTCAGGCGCCTGCAGGAGGTCT
TTGGAGTGGGGGGTTCTGGGTCACACCATCCTGGTGTTCACCCGGAAGGAAGACCTGGCTGGCAGCTCCCTGGAAG
ACTATGTGCGAGAGACCAACAACCAGGCCCTTGCCTGGCTGGATGTGACCCTTGCACGGCGCCATTGCGGCTTCA
ACAACAGGGCACAGGGGGAGGAGCAGGAGGCCCAACTGCGAGAGCTCATGGAGAAAGTTGAAGCCATTATGTGGG
AAAACGAAGGAGATTATTACAGCAACAAGGCTTACCAATATACCCAGCAAAACTTTCGGCTGAAAGAACTACAGG
AAAGGCAAGTAAGCCAGGGCCAAGGCTCTGAGGACGTGCCTGGTGAGGAGTCTTGGCTGGAAGGACTGTCCCAGA
TCCAGAAGGAATCTGAGGAAGCCCACAGATGCCTGCTGGGGAAGGCTGACCTTTGAGCCTGTGCTGGACTTGAGC
CAAGGACACCATCAGCCTTTGCACCCCCCTGTGTCCAGCCCTCTGTTTCTCTTTCCATCCCATGGAGTGCTTCCC
AGTCTCCAGGTCATGACGTCTGGTGTAGGAAGAGGGGCATGGGGCTTGAGGACAGGGTCCAGCATGCCCAGATCA
CATTCCAGTTCCTTCATTCCTTCTTCCAGAACATCTGGGTCCTCCCTCCTCTGTGCCCCAACAGCACGCTGTCTT
CCTATTGGACCTTCTATCTCATTGGCATTGCCTTTCATGAGTTACTTGTCTATACTCTGATAGAACCAAAGTTTC
TTGAGGGCAGGCCTGTATCTTTTACTTCTGTGTAACTTCCACAGCTTTTGACTGCATTGGAGTCATGCAGTCACG
TTTGGTGCGGCAACTCCATGCAAGCTGTTGACCAGATGACTTCTCATCTCTCCCCACACCATGATGGTTTAAGGT
GCCTGTTGTGTCTGGTGGAGACAGTGCTGGGAGATGATCAGAAATCTCAGGGCACAGCCTCAGGTCTACCTGGAC
ACTCATCCACTGTTGGAGATGCTCAACAGCTAGACACAGATGCTCACAGCCGACCTGTGGCCTCTTGCTCTGAAG
CCATCCCCCATCTTCCCTAGACACAGCAGACATCTGAGAAAGCTTCAGCATTTCTCTTGCTAACAGATTCAGAAA
AGTGTCTCAAAGCAGAGCACAGAGTTATTTGGTGTTTGCTGAAGACAGCCTTTGTGCCACAATCACTTATTAAAT
AAGCGATCAATTTCCCATTGAACTGAACATGCAACATTTATCATACATTCAGCTCTCATTCACACTCCTTAAGAT
TTGGTCAGAATTTTTATTTCTGTTCATGTCTTCTACTTTTCTACTCCTGTATGAATAAAATATTGATTTGATTAC
AGTGGCTTTGACTATAATGTGGGAGCCAATTTTTGCCTCAGTCTTCATTTTTATATTTACCTTGTTATTCTCAGG
CATTTTTTTCTTCTATGTGAGAGTTAAAATCATTCTGTAATTTCCCCCCAAAATCATATTGGTATTCTAGTTGGC
AATGTCTTACATTTATGTTAAGTTTGAGGGAATTGGTAGTTCAAGTATAAGTTAATTAAGGCCATTTTATTTCTA
AGTGAACAGACTTGAAACTCCAGAGCTACTGAAGTAAAAGTTAGAATCATTTGCATTTTCATTCAGATAGGAGAT
AATTTTGTAAATTTTGATGCTATTATTTTAACTCTATTAGCTTAAGTAATGTCATAATAGAAAACACAAGCATTT
GACCAAATGAGATCCATTCAGCGACTAACTGGCAAGGCACTCAAAACATGTCATTCATTAAATGTTGTTTTTATT
TACCTCAAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2305

MNKFPRRIPQKSCPRILCWSCQEVSPEVADAICQAIVLSAPGPHAVLLVTQLGRFTDEDQQVVRRLQEVFGVGVL
GHTILVFTRKEDLAGSSLEDYVRETNNQALAWLDVTLARRHCGFNNRAQGEEQEAQLRELMEKVEAIMWENEGDY
YSNKAYQYTQQNFRLKELQERQVSQGQGSEDVPGEESWLEGLSQIQKESEEAHRCLLGKADL

FIGURE 2306

AATAGGGGAAAATAAGCCAGATGGATAAAGGAAGTGCTGGTCACCCTGGAGGTGCACTGGTTTGGGGAAGGCTCC
TGGCCCCCACAGCCCTCTTCGGAGCCTGAGCCCGGCTCTCCTCACTCACCTCAACCCCCAGGCGGCCCCTCCACA
GGGCCCCTCTCCTGCCTGGACGGCTCTGCTGGTCTCCCCGTCCCCTGGAGAAGAACAAGGCC**ATG**GGTCGGCCCC
TGCTGCTGCCCCTACTGCCCCTGCTGCTGCCGCCAGCATTTCTGCAGCCTAGTGGCTCCACAGGATCTGGTCCAA
GCTACCTTTATGGGGTCACTCAACCAAAACACCTCTCAGCCTCCATGGGTGGCTCTGTGGAAATCCCCTTCTCCT
TCTATTACCCCTGGGAGTTAGCCACAGCTCCCGACGTGAGAATATCCTGGAGACGGGGCCACTTCCACGGGCAGT
CCTTCTACAGCACAAGGCCGCCTTCCATTCACAAGGATTATGTGAACCGGCTCTTTCTGAACTGGACAGAGGGTC
AGAAGAGCGGCTTCCTCAGGATCTCCAACCTGCAGAAGCAGGACCAGTCTGTGTATTTCTGCCGAGTTGAGCTGG
ACACACGGAGCTCAGGGAGGCAGCAGTGGCAGTCCATCGAGGGGACCAAACTCTCCATCACCCAGGCTGTCACGA
CCACCACCCAGAGGCCCAGCAGCATGACTACCACCTGGAGGCTCAGTAGCACAACCACCACAACCGGCCTCAGGG
TCACACAGGGCAAACGACGCTCAGACTCTTGGCACATAAGTCTGGAGACTGCTGTGGGGGTGGCAGTGGCTGTCA
CTGTGCTCGGAATCATGATTTTGGGACTGATCTGCCTCCTCAGGTGGAGGAGAAGGAAAGGTCAGCAGCGGACTA
AAGCCACAACCCCAGCCAGGGAACCCTTCCAAAACACAGAGGAGCCATATGAGAATATCAGGAATGAAGGACAAA
ATACAGATCCCAAGCTAAATCCCAAGGATGACGGCATCGTCTATGCTTCCCTTGCCCTCTCCAGCTCCACCTCAC
CCAAAGCACCTCCCAGCCACCGTCCCCTCAAGAGCCCCCAGAACGAGACCCTGTACTCTGTCTTAAAGGCC**TAA**C
CAATGGACAGCCCTCTCAAAACTGAATGGTGAGGCCAGGTACAGTGGCGCACACCTGTAATCCCAGCTACTCTGA
AGCCTGAGGCAAAATCAAGTGAGCCCAGGAGTTCAGGGCCAGCTTTGGATAATGGGAGCGAGGATGCCATCTCTA
GTTAAAAATATATATTAACAATAAAGTAACAAATTTAAAAAAAAAAAAAAAAAAAAAAAAAAA

FIGURE 2307

MGRPLLLPLLPLLLPPAFLQPSGSTGSGPSYLYGVTQPKHLSASMGGSVEIPFSFYYPWELATAPDVRISWRRGH
FHGQSFYSTRPPSIHKDYVNRLFLNWTEGQKSGFLRISNLQKQDQSVYFCRVELDTRSSGRQQWQSIEGTKLSIT
QAVTTTTQRPSSMTTTWRLSSTTTTTGLRVTQGKRRSDSWHISLETAVGVAVAVTVLGIMILGLICLLRWRRRKG
QQRTKATTPAREPFQNTEEPYENIRNEGQNTDPKLNPKDDGIVYASLALSSSTSPKAPPSHRPLKSPQNETLYSV
LKA

2596/2825
FIGURE 2308

GGGCGAGGCTGCACCAGCGCCTGGCACC**ATG**AGGACGCCTGGGCCTCTGCCCGTGCTGCTGCTGCTCCTGGCGGG
AGCCCCCGCCGCGCGGCCCACTCCCCCGACCTGCTACTCCCGCATGCGGGCCCTGAGCCAGGAGATCACCCGCGA
CTTCAACCTCCTGCAGGTCTCGGAGCCCTCGGAGCCATGTGTGAGATACCTGCCCAGGCTGTACCTGGACATACA
CAATTACTGTGTGCTGGACAAGCTGCGGGACTTTGTGGCCTCGCCCCCGTGTTGGAAAGTGGCCCAGGTAGATTC
CTTGAAGGACAAAGCACGGAAGCTGTACACCATCATGAACTCGTTCTGCAGGAGAGATTTGGTATTCCTGTTGGA
TGACTGCAATGCCTTGGAATACCCAATCCCAGTGACTACGGTCCTGCCAGATCGTCAGCGC**TAA**GGGAACTGAGA
CCAGAGAAAGAACCCAAGAGAACTAAAGTTATGTCAGCTACCCAGACTTAATGGGCCAGAGCCATGACCCTCACA
GGTCTTGTGTTAGTTGTATCTGAAACTGTTATGTATCTCTCTACCTTCTGGAAAACAGGGCTGGTATTCCTACCC
AGGAACCTCCTTTGAGCATAGAGTTAGCAACCATGCTTCTCATTCCCTTGACTCATGTCTTGCCAGGATGGTTAG
ATACACAGCATGTTGATTTGGTCACTAAAAAGAAGAAAAGGACTAACAAGCTTCACTTTTATGAACAACTATTTT
GAGAACATGCACAATAGTATGTTTTTATTACTGGTTTAATGGAGTAATGGTACTTTTATTCTTTCTTGATAGAAA
CCTGCTTACATTTAACCAAGCTTCTATTATGCCTTTTTCTAACACAGACTTTCTTCACTGTCTTTCATTTAAAAA
GAAATTAATGCTCTTAAGATATATATTTTACGTAGTGCTGACAGGACCCACTCTTTCATTGAAAGGTGATGAAAA
TCAAATAAAGAATCTCTTCACATG

2597/2825
FIGURE 2309

MRTPGPLPVLLLLLAGAPAARPTPPTCYSRMRALSQEITRDFNLLQVSEPSEPCVRYLPRLYLDIHNYCVLDKLR
DFVASPPCWKVAQVDSLKDKARKLYTIMNSFCRRDLVFLLDDCNALEYPIPVTTVLPDRQR

FIGURE 2310

TTTTCAGTGCCTCTTCTGTCACAATCGTAGACACGGTCACACTCCAGTATCTGGGAAAACACAGAGATCGCTATG
GGTTGCAGCGC**ATG**TGGGGCTCCCTGGGCTGGGGCCTGGCGATGCTGTCTGTGGGCATCGGGATCGACTACACCC
ACATCGAAGTGCTCATCGATGGAAAGGGGTGTAAGCCCCCCGAGTACAGGAATTACCAGATCGTCTTCATCGTCT
TCGGCGTTCTCATGACCATGGCCTTGATCGTTGCCACTCAGTTCCGGTTCCGCTACAACCATTTCAAAAACGATG
ATTCTAAAGGGAAAGAGGTGGAGATCCCGCAGGTGGAAAGGAACAACTCTACAGAGTCCTCTGAGGAGACACCAA
CCACCACAAGCCACTCGCAGGCCTTCAACTTTTGGGACTTAATCAAGCTGCTCTGCAGCGTGCAGTATGGCTCAG
TGCTGTTTGTGGCTTGGTTCATGGGTTTTGGATATGGCTTCGTGTTCACCTTTCTCTACTGGCATTTGGAAGACC
TCAATGGAACTACAACCCTCTTTGGGGTCTGTTCAGTCCTGAGTCATGTGTCTGAGCTGACAGCATATTTTTTTA
GTCACAAGCTTATTGAATTGATCGGCCACATCAGGGTTCTGTACATTGGCCTGGCCTGCAATACGGCTCGCTATA
TTTATATTTCCTACCTGGAGAATGCCTGGACTGTTCTCCCCATGGAAGTTCTTCAAGGAGTGACACACGCGGCCA
TCTGGGCAGCATGCATTTCTTACCTCAGTGCAGCCGTTCCCCCTGAGCTGAGGACATCTGCTCAGGGCATCCTGC
AGGGCCTTCACCTGGGTTTGGGAAGAGGATGTGGTGCCATGATCGGAGGCGTGTTAGTCAATTATTTTGGGGCTG
CTGCAACCTTCCGAGGAATTGGCATGGCCTGCTTGGTGATCCTACTGCTCTTTGCCCTGATCCAGTGGCTGGCAG
TGCCAGATGAGGAAGAAGACAAGACAATGTTGGCAGAAAGAATTCCTGTTCCCTCCAGTCCCGTTCCTATAGCAA
CCATCGACTTGGTACAGCAACAGACAGAAGATGTCATGCCACGCATTGAGCCCAGACTTCCACCCAAGAAAACTA
AGCACCAGGAAGAACAGGAAGATGTGAACAAACCAGCCTGGGGAGTCAGCTCTTCTCCCTGGGTGACCTTTGTCT
ATGCACTCTACCAAATTAAAGAGATGATGCAACTCACAAGAGACAACCGTGCTTCTGAGATACAGCCTTTACAGG
GGACCAATGGGAATAGGGAAAATTCTCCTGCTGGTAGAGCCCAGCCTGTCCCATGTGAGACTCACTCTGACCCAT
CTAGAAACCAGCCATCCCCTGACGCAGCAGCATCTCAGACGCAGACCAGCCCCGCTCACCCCAGTGTGGACCCGT
GCACAGAGGAGAGTGAAGAGCAGCAGGCTCAGCTGGCCGCGGGAGGACAC**TGA**GGGCATCCTGCTCATCTCACAC
CCTGCATGGAATCAGGCTCCTCAGCCAGGACACAGGGTGAGGCCCCCCAGCCAGGATATGCCTCCCCTGGAGGAG
CACAGCACTGCATATGCTTCTAAATATCTAAACTCATTAACATGGAAACACACACAGGAGCTACAGTACATAT
TGGCAGAAAAAGGTAAACTTTCGTAATCTCATTGGAATTACAACAGGGAAATGGAGTTCAATGAGGACTTTCAGT
TCTTTGCTTGGTTAGGTTAAGGATGATAGAATTTCTCTGCCAGTGCAGTAAGAGTTGAAACCGGCAGTTACACTA
AGTAAGTGGAGGGAATGAAAGTGTTTCGAGGTGAATGTGGATATAATTTCCCTCTTCTGATTATTTATTCTTATT
TGGTTCCTAACACAAACTGGGAAGAGATAGAATTCATCTATACTTTCTTTTTTCTTGGAGAGAACCGTTTAAAAA
ATTACAAGATATATTTAAAAAGTAACCAGATAAAAGTAGCACATGTGCTTTTGTTAAAAATAAAGTTAAAAGTTA
AAGTTAAAAAATGAAGTTAAAAGTTTCATCAGAAACTTTACATATCTTTAGCAAATATATTTTTATATGTGTATG
GCATATAATGGAAATAATTCTTTGAGCAACAGAAGCTATTATTAACTACTGCAAGCTAAGCCGAGCTTAAAAATG
CCTTTTGTTTTAAATGGGCTTTGAGAAAAAAAAAAAAAAAAA

FIGURE 2311

MWGSLGWGLAMLSVGIGIDYTHIEVLIDGKGCKPPEYRNYQIVFIVFGVLMTMALIVATQFRFRYNHFKNDDSKG
KEVEIPQVERNNSTESSEETPTTTSHSQAFNFWDLIKLLCSVQYGSVLFVAWFMGFGYGFVFTFLYWHLEDLNGT
TTLFGVCSVLSHVSELTAYFFSHKLIELIGHIRVLYIGLACNTARYIYISYLENAWTVLPMEVLQGVTHAAIWAA
CISYLSAAVPPELRTSAQGILQGLHLGLGRGCGAMIGGVLVNYFGAAATFRGIGMACLVILLLFALIQWLAVPDE
EEDKTMLAERIPVPSSPVPIATIDLVQQQTEDVMPRIEPRLPPKKTKHQEEQEDVNKPAWGVSSSPWVTFVYALY
QIKEMMQLTRDNRASEIQPLQGTNGNRENSPAGRAQPVPCETHSDPSRNQPSPDAAASQTQTSPAHPSVDPCTEE
SEEQQAQLAAGGH

FIGURE 2312

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GGAATTAGCCTCCTCAATGAAAAAGAAAGAGGGGGAGGAAGAGGAAGAGAAAAGAAGAAGAAAACCCTGAACATG
GTTTCATTGGATATTCACCCGAACTGCTACAGAACAACACGCTGCCCGATTACAGCCCGGGGGAATCTTTTTTCA
CTGTCTTTGGGGTTTTCTTCCCAGCGGCTACAGGAGTCATGGCCGGTTCAACATGGGGGGCGACCTCAGGGAGCC
TGCCGCCAGCATTCCCCTGGGCTCCCTGGCAGCTGTTGGCATCTCGTGGTTTCTGTACATCGTCTTCGTCTTCCT
CCTGGGCGCCATCTGCACTCGAGAGGCCCTTCGCTATGACTTCCTGATAGCGGAAAAGGTATCCCTCATGGGCTT
CCTGTTCCTTTTGGGCTTATACATCTCGTCCCTGGCTTCCTGCATGGGAGGACTTTATGGAGCTCCCCGCATCCT
GCAGTGCATTGCCCAGGAGAAAGTGATCCCTGCACTTGCCTGTCTGGGACAAGGGAAGGGGCCAAACAAAACACC
CGTGGCTGCCATCTGCCTGACCAGCTTGGTGACCATGGCCTTTGTTTTTGTGGGTCAAGTGAACGTTCTGGCCCC
CATCGTCACCATCAACTTCATGCTTGACATACGTTGCAGTGGACTACTCTTACTTCTCCCTGTCC**ATG**TGTTCCT
GCAGCCTGACCCCGGTGCCTGAGCCGGTGCTCAGGGAGGGCGCAGAAGGCCTCCACTGCTCTGAGCACCTGCTCT
TAGAGAAAGCTCCCAGTTACGGCTCTGAGGGACCTGCCCAAAGAGTCTTGGAGGGCACGCTACTGGAATTCACCA
AGGACATGGATCAGCTCCTCCAGCTAACCAGGAAGCTTGAGAGTAGCCAGCCCAGGCAAGGAGATGGTAACAGGA
CCCCAGAAAGTCAGAAGAGGAAAAGCAAGAAGGCCACCAAGCAGACCCTACAAGATAGCTTCCTCTTGGACCTCA
AATCCCCTCCTTCTTTCCCTGTCGAGATCTCTGACAGGTTGCCCGCTGCCTCCTGGGAGGGGCAGGAGTCCTGCT
GGAACAAGCAGACTTCCAAGAGCGAAGGGACTCAGCCTGAGGGAACATATGGAGAGCAACTTGTTCCTGAGCTGT
GCAACCAATCAGAGTCCAGTGGAGAAGATTTCTTCCTGAAGTCCAGGCTCCAAGAACAAGATGTCTGGAGAAGAT
CCACTTCTTTCTATACCCACATGTGCAACCCCTGGGTCTCCCTGTTGGGGGCTGTTGGGTCCCTTCTCATCATGT
TTGTGATACAGTGGGTGTATACCCTGGTTAACATGGGTGTTGCTGCCATCGTGTATTTCTACATTGGCCGGGCCA
GTCCAGGGCTTCACCTTGGATCAGCCTCCAACTTCAGCTTTTTCCGGTGGATGAGGTCTCTCTTGCTCCCCTCCT
GCAGGAGCTTGCAGTCCCCCCAGGAGCAGATCATCTTGGCGCCGTCCCTGGCTAAGGTTGACATGGAGATGACTC
AGCTCACCCAGGAGAATGCAGACTTCGCCACTCGGGATCGCTACCACCACTCCTCCCTCGTGAACCGGGAGCAGC
TGATGCCTCACTAC**TAG**ATGCAGTGCTGGGACCTTCCTCTTTTGGAGCTGTCCCATGTACAGTGGACCCAAGCCC
AGGACCTTCGTGGAGCTGCTTCTCCAACCTGAGAAACTCAAGACCCATCCTCCCGCTGTCACTTTGGACAATGGA
AATCTACATTTTCTTTTCCCTTTTTTTTTTTTGAGACAGAGTCTCGCCTTGTCACCCAGGCTGGAGTCCAGTGG
CACAATCTTGGCTCACTGCAACCTCTGCTTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCTCTGAGTAGCTGGGA
TTATAGGCATGCACCACCACCACCCAGCTATTTTTGTATTTTTACTGGAGACAGGGTTTCACCATGTTGGCCAG
GCTGGTCTCGAACTCCTGACCTCGTGATCCACCCGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCGTGAGCCA
CCATGCCTGGCCAGAAATCTATGTTTTCTTAGAACATGTGGAAGAAGGAAAAAGACAAAAAGGAAGTCTGGATTC
TGAGGACCACGTCTCACCCAGGGTGACATCAGGAATGGTGCTAGCCTCTGCAACACGACACCCAGTTTGAAGAGC
TCTATACAGGTACTAAGACTAGCAGGGGACACCAAGACTCTGCACAACCAGATTGCTTGTGCAGAGGGCCACAAT
AAGTGTATGTTTTATATTTTATTGTATTATTTATTCAAAAATAAATAATACACTCACATGTTTCCACACCCAAAA
AAAAAAAAAAAAAAAAAAAAAAA
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FIGURE 2313

MCSCSLTPVPEPVLREGAEGLHCSEHLLLEKAPSYGSEGPAQRVLEGTLLEFTKDMDQLLQLTRKLESSQPRQGD
GNRTPESQKRKSKKATKQTLQDSFLLDLKSPPSFPVEISDRLPAASWEGQESCWNKQTSKSEGTQPEGTYGEQLV
PELCNQSESSGEDFFLKSRLQEQDVWRRSTSFYTHMCNPWVSLLGAVGSLLIMFVIQWVYTLVNMGVAAIVYFYI
GRASPGLHLGSASNFSFFRWMRSLLLPSCRSLQSPQEQIILAPSLAKVDMEMTQLTQENADFATRDRYHHSSLVN
REQLMPHY

FIGURE 2314

CTGACGACTTGAAGCCAGAGGCACCGCCAGTTGGCCCCAGCCCGCAGC**ATG**GCAGCCGCCGCCTATGTGGACCAC
TTCGCCGCCGAGTGCCTCGTGTCCATGTCGAGCCGCGCGGTCGTGCACGGGCCGCGGGAGGGGCCGGAGTCCCGG
CCCGAGGGCGCGTCCGTGGCCGCCACCCCCACGCTGCCCCGCGTCGAGGAGCGCCGCGACGGTAAGGACAGCGCC
TCGCTCTTCGTGGTAGCGCGGATCCTAGCGGACCTCAACCAGCAAGCGCCGGCGCCCGCCCCGGCGGAGCGCAGG
GAGGGCGCCGCGGCCCGGAAGGCGAGGACCCCCTGCCGCCTGCCGCCGCCCGCCCCCATGAGCCCACCTCCCCCG
GCGCTGAAGGCGCGGCGAGCCGCGCCCCCCAGCCCGGCGTGGAGCGAGCCGGAGCCCGAGGCGGGGCTGGAGCCC
GAGCGGGAGCCGGGGCCCGCGGGGAGCGGCGAGCCCGGCCTCAGACAAAGGGTCCGGCGGGGCCGAAGTCGCGCC
GACCTCGAGTCCCCGCAGAGGAAGCACAAGTGCCACTACGCGGGCTGCGAGAAAGTTTACGGGAAATCTTCGCAC
CTCAAGGCGCACCTGAGAACTCACACAGGTGAGAGGCCCTTCGCCTGCAGCTGGCAGGACTGCAACAAGAAGTTC
GCGCGCTCCGACGAGCTGGCGCGGCACTACCGCACACACACGGGCGAGAAGAAGTTCAGCTGCCCCATCTGCGAG
AAGCGCTTCATGCGCAGCGACCACCTGACCAAGCACGCGCGCCGCCACGCCAACTTCCACCCGGGAATGCTGCAG
CGGCGCGGCGGGGGCTCGCGGACCGGCTCCCTCAGCGACTACAGCCGCTCCGACGCCAGCAGCCCCACCATCAGC
CCGGCCAGCTCGCCC**TGA**GCCCGCACAGCCATGAGCAGCCGCTCCCACCCCCTCGTGAGTCCCTGGCCTTTCCTT
TTGTTATAAGAAAGAAGAGAGAGAACTTGATGCCAAGTCCACGAAAAAACAATTTTTTTCACCTCAGGTGTCAAA
GTAAATTTGTTAAAAAAAAAAAAAAAAAA

2603/2825
FIGURE 2315

MAAAAYVDHFAAECLVSMSSRAVVHGPREGPESRPEGASVAATPTLPRVEERRDGKDSASLFVVARILADLNQQA
PAPAPAERREGAAARKARTPCRLPPPAPMSPPPPALKARRAAPPSPAWSEPEPEAGLEPEREPGPAGSGEPGLRQ
RVRRGRSRADLESPQRKHKCHYAGCEKVYGKSSHLKAHLRTHTGERPFACSWQDCNKKFARSDELARHYRTHTGE
KKFSCPICEKRFMRSDHLTKHARRHANFHPGMLQRRGGGSRTGSLSDYSRSDASSPTISPASSP

FIGURE 2316

GAATTCCGGCTCCCGCGGCTGCAGGCGCGCGCCTAGAGTGCCTGGCGGGCTCCGGCTTCCGCGTCCGCCCCGGCC
CCGGTCCAGACTTAGTCTTCAGCTCCGCGCCCGCTCCGCCGCGGCCCACCGCGCCCGCCGGCAGCCGAGCCCCCA
GCGACGCCCGCACAGCTCCGGGTGCCCAGACAGGGGGCC**ATG**CCGTGCCGGAGGGAGGAGGAAGAGGAAGCCGGC
GAGGAGGCGGAGGGGGAGGAAGAGGAGGAGGACAGCTTCCTCCTACTGCAGCAGTCAGTGGCGCTGGGCAGCTCG
GGCGAGGTGGACCGGCTGGTGGCCCAGATCGGCGAGACGCTGCAGCTGGACGCGGCGCAXGACAGCCCGGCCTCG
CCGTGCGGGCCCCGGGGGCGCCGCTGCGGGCCCCGGGGCCCCTGGCTGCGGCGGTGCCGGCGGACAAGGCCAGG
TCCCCGGCGGTGCCGCTGCTGCTGCCGCCCGCGTTGGCGGAGACTGTGGGCCCGGCGCCCCCTGGGGTCCTGCGC
TGCGCCCTGGGGGACCGCGGCCGCGTGCGGGGCCGCGCTGCGCCCTACTGCGTGGCCGAGCTCGCCACAGGCCCC
AGCGCGCTGTCCCCACTGCCCCCTCAGGCCGACCTTGATGGGCCTCCGGGAGCTGGCAAGCAGGGCATCCCGCAG
CCGCTGTCGGGTCCGTGCCGGCGAGGATGGCTCCGGGGCGCCGCCGCCTCCCGCCGCCTGCAGCAGCGACGCGGG
TCCCAACCAGAAACCCGCACAGGCGACGACGACCCGCACCGGCTTCTGCAGCAGCTAGTGCTCTCTGGAAACCTC
ATCAAGGAGGCCGTGCGAAGGCTTCATTCGCGACGGCTGCAGTTACGTGCAAAGCTTCCCCAACGCCCGCTCCTG
GGACCTCTGTCGGCCCCGGTGCATGAACCCCCTTCGCCTCGCAGCCCTCGCGCGGCCTGCAGTGACCCTGGCGCC
TCCGGGAGGGCGCAGCTCAGAACTGGCGACGGCGTTCTTGTGCCTGGCAGC**TAA**CACGCCCGGGGTGGCCACAGC
GCCAGCCTCAGACTGGAGGGCAAGGGGTTCCCTTGAGGGCTGCAGTTCTACTCAGGCTGGTGGAGAACTCTGGCT
TTTGGAAGCGAGAGTAAAAAGCTAATGACGAGGAACCGAAAAATCGCGAGTGTTTCGCGGGTAACTGGGGTTGAG
GGCCAAAATATTTGGAATGAAGGACTTGGCCCTATTTAAGGCAGATTTTACAGAGCGCACCTCAAACGTACAAGT
CAGTAGGACTCCTTATTTGGCGTGACCCGACCTGGCCGCGGAGCCTGCATTTCCTCGCAGCCTCTCAGTGCCCTC
CAGCCCCGCGACCATGTGGCCACAATCCACGCTTCTCCGGATCGCGGTGCGCCGGAACCACGGAGGATGATGCCA
GTTACTTGCTTTACCTTTTCAGGGCTGGCTCCTGATCCACTTTGGGGGAGGAGAACATGAGTAGATAATTTCAGG
GTGCAGCCCAATCTGCCAGACTTAAAAAAACCATCTTGTGTCTTTGGAGGTGCTGCTTAATATCAAACATGCGGT
GCCATGAAGGGACCCTTTGGGGGTTGAATAGGAGTTAACCCCTGCGCTCTCTTTGCAACTGTCTCTCTTCTCAGA
GTGGTGGGGGAAGGCTGTACGACACGGGTGGGGAAAGGAGGTGGGGGCGGGGAGTATTGAATGGTGGTGGAAGGG
TAGAGAGGCGCGGAGTGAACCCCACGCCCTGTCTAAAGTGTATTTTCAGAGCCGGCCCGCCTCTCCTCGGTTCAA
GGTCACTGTTTCCTGGGCACGCACTGGGTTGCGGGACAGAGTAGCCAGTTTCTGCCGGTGCTCGGAGAAGAGCGC
AGTGTTTTGCAAGTGCTGGAGTCTCCTGAGGACACGCGCGTCGCCGCCACCGCGGGTGTGGGAAAGCGCGGACGT
GCTGGGCGTCTGTGCTTCGGTAGGCGACCACCGCCCCTGGCCGCGCTCCGGGCTTTCACGGAAACTCCCGAGACC
GGGCCCTGGGTTCCTCCTCTCCTACTCGGCTCTGCAGTCCTACTCAAGCGGGTGGCTCTGGGATCCTGGGGGCCT
GGGTTGGGGGCTAGGGAGACGCCATGTGATGGACACTCCAGGGACACACAGCCTAGCACAGCAGCTTATAATGGG
CTCTCCGGGGCCATTTGCAATAACAGCTGCAATTCCCTGGATAGACGAGTTGATTTCCTCCCTCTGCCCCTCCCC
CAGCCATGCCAGCTGGCCTTTGTAAGTGCAGGAAACCGAGTAGAAAATGTGACCCTCCAAATGGAGAAGCTGCCA
GCTTTGCCATTGTGAACCATGGTGAAGTGCTTGGAACATACTGTTCACTCACTCTAAAGGCGCTGAGACTGTGCT
GTTGTTCTCGTTTTTATAGTCAATGGCTTGTTCATCATCCAGATGTGGCTACTGACATATCTACACTTCGCACCG
GAGTGTCTGGAATTGTGGCTATCCTGATTATAGGATTTTAACTTAACTGAAATGCCTGCTTTGAATAAATGTGTT
GGGTTTTT

2605/2825

FIGURE 2317

MPCRREEEEEAGEEAEGEEEEEDSFLLLQQSVALGSSGEVDRLVAQIGETLQLDAAXDSPASPCGPPGAPLRAPG
PLAAAVPADKARSPAVPLLLPPALAETVGPAPPGVLRCALGDRGRVRGRAAPYCVAELATGPSALSPLPPQADLD
GPPGAGKQGIPQPLSGPCRRGWLRGAAASRRLQQRRGSQPETRTGDDDPHRLLQQLVLSGNLIKEAVRRLHSRRL
QLRAKLPQRPLLGPLSAPVHEPPSPRSPRAACSDPGASGRAQLRTGDGVLVPGS

FIGURE 2318

CAGGAAGAGGTATTTCTTGGGGATGCTACCAAGGCAGAGACTGTGAAGAAGGAAGAACGTTGCTTGGGCAAAAGG
AGCATATTCTCAGGAGACGGGGCCCCTGCCTGCCACACCAAGCATTAGGCCACCAGGAAGACCCCCATCTGCAAG
CAAGCCTAGCCTTCCAGGGAGAAAGAGGCCCCTGCAGCTCCTTCATC**ATG**AACTGGCACATGATCATCTCTGGGC
TTATTGTGGTAGTGCTTAAAGTTGTTGGAATGACCTTATTTCTACTTTATTTCCCACAGATTTTTAACAAAAGTA
ACGATGGTTTCACCACCACCAGGAGCTATGGAACAGTCTCACAGATTTTTGGGAGCAGTTCCCCAAGTCCCAACG
GCTTCATTACCACAAGGAGCTATGGAACAGTCTGCCCCAAAGACTGGGAATTTTATCAAGCAAGATGTTTTTTCT
TATCCACTTCTGAATCATCTTGGAATGAAAGCAGGGACTTTTGCAAAGGAAAAGGATCCACATTGGCAATTGTCA
ACACGCCAGAGAAACTGAAGTTTCTTCAGGACATAACTGATGCTGAGAAGTATTTTATTGGCTTAATTTACCATC
GTGAAGAGAAAAGGTGGCGTTGGATCAACAACTCTGTGTTCAATGGCAATGTTACCAATCAGAATCAGAATTTCA
ACTGTGCGACCATTGGCCTAACAAAGACATTTGATGCTGCATCATGTGACATCAGCTACCGCAGGATCTGTGAGA
AGAATGCCAAA**TGA**TCACAGTTCCCTGTGACAAGAACTATACTTGCAACTCTTTTTGAATCCATACAGGTCGTCT
GGCCAATGATTCTTTTACTTACCTATCTGTCTACCAGTAGCGGTCCTTGCCCATTTGGGAAACTGAGCTTCTTTC
TTCTGCACTGGGGGACTGGATGCTAGCCATCTCCAGGAGACAGGATCAGTTTTACGGAAACAACTCAGTTAGTAT
AGAGATGAGGTCCGCTTCTGTAGTACTGAGCATTTCTGACTGATCAAAAAGGCCTAGTCTGTTGACAGGGTTTGT
TTTATTTTAGCCTCAGAGTATACCATACTACTAGGGAGTAACTGTAGAGTGAGAAATTATAAACATTATTTAGGG
ATTACCATGGTGGAAGAGGGATAAACATAGGTCCTGTGACTTCGTCTCTGTTCTCAAGGGAACCCCATTCACATG
CCCCTCCTAACTCCACAAGCGAGGGTAGCAGAGGCTCTCCTCAGTCTGAACTAAGGCTTGGCCTTGGGGAGGGCT
CCTAGTGCTGAGCTTGGAGCAGCACGGACAGCAGCATTGTTTATGGGAATGGAGAGAGGTCTGGGCAGGATAGGA
ACCTTCTTGGAGACCCCTTTGAAGAAAACCAGGCAGCCAAGGGAGCCAAACACACTAGATTTCTGTTCTTCAGCA
AAGCCCTGAAGAGACACTTAAGCTAAAAATTCCCTTGTCATATTTCTGAAACTCCATTATAACATATGTAACTCC
TTTGTAACCAAAATTTAGGTAAGCAGGCTTCCTTTGCTCTGAAGGTTTTGAGTACCTGGCTGTATTTGTTGAGTA
TTTTTAAAATTTTGGATAGTCTCTTAGGCAACAATAATCACAATATATTCATCCCTTCAGTTCTGGAGAAAGCCT
GATACCAGCACAGCCTACTGACCCCAAGGAGCCTGGCACTGATTGGCATCACATTGATCTAAGAACTGGTCCAGC
CGACGAAGAGTAGGAAAAGAGAAGGGCTGCTCAGGGAAACATTGGCTGGGGGCACGGAATAAGCACATAGTAAAA
AGGGAACATCAGGGTCAAATGGAAATCACCTGAGACAGGAAACAGGGAGTTCATTGGCCACACTGGAAGAAAGG
CAAGAAAGAGGAAGACAAGTCTTGGGGTACCCTGGCTGTTCTCCACACTCACAAGACATCAGCTATATACTCTGC
TTGGTGCATAAGAGAGAGAAAAGAGATGCCTTTTGTGTTTTGAGTAAGAATAATTAAACCATAAGGAAGACCATG
TATAAAACTGATGGAAATAATAGTCACCAAAGTACAGCACATACCATTTTGTGTCTAATAACAATGTAGCACAGT
AATGACTGTACATGTCATTGTATGTATACCAAACAAGATTGTTGTAAATCATATTTTTTATTACAACACTAAGTT
CTGCTTCTGCATTCCTAGGTTTCATCATTTTTGGCTCCTTAGCATGGCCACTTACAATTTTTTAACATGAGATAA
CACATCAGGTGTCAGAACTTGCTTGAAGGGAATTACCAGAAGTAATTTGTGTTTGAGATGGGGTGGAAATTGGAA
TTATATTAGTAGCCGGTGGAGATACAAGTTCTCTGACTGTGTTGGGAAAGGATAAGTGCTACCGTTGAGAAGGGA
AGAAAGGCTGAGTCTAGGTGGAGAAAAATATCAACAGAACTCTAGCCAAAGGCAAGCCCCAGAACTCAGACAACA
GAAAGGAAATCCTAATCCTTCTGTTTTGAGAAGAGAGAACTGTAGTTGCTTCACTTCCTATTTCATGACAGAATA
ACTGCAAACTTTTAAGATCAGGAAATGTAGACATCTAGTGATTTCTTTAGTAGACAGTTTAATTTCCCCCAAGAT
TAGGAGACACTTCTGTGCAGGTTCTAAAAGGAGCCCAATGGCCTGGGGTGGGAGTGGGGAGTAGATAGGGAATAT
GTGGGATTTGGTTTAAGTTCATCATTGGGAGAGTTCCTGGATCCTTGCAAGCTTAGATAAATGTGATCTTTATTA
GATAGCAGTGGCATGCTTTTAAAAAAAAAAAGGCAATGAAAATTTAGCAAGCCACTGAATTTGAGTTTTCACTTT
GTTTCTAATATGCTGTGTGAATCAGTACAGTTTTCTTACCCTTTCTTGGTCTTAATTTCCTTACTGATAAAATGG
GGTAGTAATACCTATCTCAAAAAATATTGCACATATTAAATAACATTCCTCTATGTATCTCAATGGCATTAGACA
TTAGGAGAAGCATTTTGTGGAGGATTTGAAGTTGAGATCTTCATCCAAGAAGTAGCTTTTCAATTTGCTAGAAGC
TTAATGTAGGCAAGCCACTTCATTTTTCAGAACTTGTTTACTCATTTATAATATGGGAATAAAAATTTGTGCAAG
TCAGAGAAGGGTGCCTTAAAAATGTTGTGGCCAAGCCACATGAGATCAAAGACACACTTTTCATGACCTCAAATG
TGGGCCCAGCCTAGGTCAGCCAACCCCCATCCAACCCTTAGACTCACGAACAAATCCACCTGAGATCAGCAGAGC
CACCCTAGATCAGCTGAAACTCTAAGCACAAAAATAAAAACTTATCACTGTATACCACTGGAGTTTTCTGGTTAT
CTCTCGTATAGCAAAATCTAACTGATGCAATCTCCATCTGGCCTTCATCCTTCTCCCTTTATTGTCCTTTCGTGT
ATTGTTCATCCAGCAACCAGGATGATCTTGTTAAAACATTAAACAGATTCTGTCACTCTT

FIGURE 2319

MNWHMIISGLIVVVLKVVGMTLFLLYFPQIFNKSNDGFTTTRSYGTVSQIFGSSSPSPNGFITTRSYGTVCPKDW
EFYQARCFFLSTSESSWNESRDFCKGKGSTLAIVNTPEKLKFLQDITDAEKYFIGLIYHREEKRWRWINNSVFNG
NVTNQNQNFNCATIGLTKTFDAASCDISYRRICEKNAK

FIGURE 2320

GGGGGGGGCGGGGCGCCCAGCGGGATGCGGTGAAGGGCGAGCGGCGCGGCGGCTGCG**ATG**AGTGCCTCTGCGGCC
ACCGGGGTCTTCGTGCTGTCCCTCTCGGCCATCCCGGTCACCTATGTCTTCAACCACCTGGCGGCCCAGCATGAT
TCCTGGACTATTGTAGGGGTTGCTGCCCTCATCCTGTTCCTGGTAGCACTGCTGGCTCGTGTCCTCGTCAAAAGA
AAACCACCCCGGGACCCACTGTTCTATGTGTATGCAGTTTTTGGATTTACCAGCGTGGTGAACCTCATCATAGGA
CTGGAGCAAGATGGAATCATTGACGGGTTCATGACACACTACTTGAGAGAGGGTGAACCGTATCTGAACACCGCA
TATGGGCACATGATCTGCTACTGGGATGGCTCTGCTCATTATCTGATGTACCTGGTGATGGTGGCAGCCATAGCA
TGGGAGGAAACTTATAGAACCATTGGCCTATATTGGGTTGGATCTATTATTATGAGTGTTGTTGTTTTTGTGCCA
GGAAACATTGTAGGGAAGTATGGAACACGAATTTGCCCTGCTTTTTTCTTAAGCATACCATATACTTGTCTTCCT
GTCTGGGCTGGTTTCAGAATCTATAATCAGCCATCAGAAAATTATAATTACCCCTCAAAGGTTATTCAAGAAGCC
CAAGCGAAAGACCTGCTGAGAAGACCATTTGATTTAATGTTGGTTGTGTGTCTCCTCCTGGCAACTGGATTTTGC
CTGTTCAGAGGTTTGATTGCTTTGGATTGCCCATCTGAGCTCTGCCGATTATATACGCAATTTCAAGAGCCCTAT
CTAAAGGATCCTGCTGCTTATCCTAAAATTCAGATGCTGGCATATATGTTCTATTCTGTTCCTTACTTTGTGACT
GCACTGTATGGCTTAGTGGTTCCTGGATGTTCCTGGATGCCTGACATCACATTGATACATGCTGGAGGTCTGGCT
CAGGCTCAGTTTTCTCACATTGGTGCATCTCTTCATGCTAGAACTGCTTATGTCTACAGAGTCCCTGAAGAAGCA
AAAATCCTTTTTTTAGCATTAAACATAGTATATGGAGTTCTTCCTCAGCTCTTGGCCTATCGTTGTATCTACAAA
CCAGAGTTCTTCATAAAAACAAAGGCAGAAGAAAAAGTGGAA**TAA**AAATATTACTTCATGTTCCTCCTTTCTAAA
TTACTAACTTTTGTTATACTGGTACTGATATTTTGTCCCATTTCACTCTCTTCTCATACGTGAGTACTTAAGAAT
ATGTACATTCTTGCTCTGCACTGTATGTGTGAGCTATATGGTATTGTGTAAATTTTTTTTGAAGGAAAATGGAAA
TTCTTGAGAAACAGTTTGTTTAAAGAAATATATTCAAAATCATTTGTGAATAAACTTGATCATCCATCTCAAAAA
AAAAAAAAAAAAAAAAAAAA

2609/2825
FIGURE 2321

MSASAATGVFVLSLSAIPVTYVFNHLAAQHDSWTIVGVAALILFLVALLARVLVKRKPPRDPLFYVYAVFGFTSV
VNLIIGLEQDGIIDGFMTHYLREGEPYLNTAYGHMICYWDGSAHYLMYLVMVAAIAWEETYRTIGLYWVGSIIMS
VVVFVPGNIVGKYGTRICPAFFLSIPYTCLPVWAGFRIYNQPSENYNYPSKVIQEAQAKDLLRRPFDLMLVVCLL
LATGFCLFRGLIALDCPSELCRLYTQFQEPYLKDPAAYPKIQMLAYMFYSVPYFVTALYGLVVPGCSWMPDITLI
HAGGLAQAQFSHIGASLHARTAYVYRVPEEAKILFLALNIVYGVLPQLLAYRCIYKPEFFIKTKAEEKVE

2610/2825
FIGURE 2322

CATTTGCTATGAATATTCTCTATAACAAAGCAAGACAAATTTAGCAGCACTTCATTGCATCTGGATGGGGGAGAG
AGCTGGACAATTTCTTGCTAACAAGAG**ATG**GTTAACTGCCCTCACCTCAGCCGTGAATTCTGCACACCTCGCATC
CGGGGCAACACCTGCTTCTGCTGTGACCTCTACAACTGTGGCAACCGGGTGGAGATCACTGGTGGGTACTACGAA
TACATCGATGTCAGCAGTTGCCAAGATATCATCCACCTCTACCACCTGCTCTGGTCTGCCACCATCCTCAACATT
GTTGGCCTGTTCCTGGGCATCATCACTGCCGCTGTCCTTGGAGGCTTTAAGGACATGAACCCAACTCTCCCAGCA
CTGAACTGTTCTGTTGAAAATACCCATCCAACAGTTTCTTACTATGCTCATCCCCAAGTGGCATCCTACAATACC
TACTACCATAGCCCTCCTCACCTGCCACCATATTCTGCTTATGACTTTCAGCATTCCGGTGTCTTTCCATCCTCC
CCTCCCTCTGGACTTTCTGATGAGCCCCAGTCTGCCTCTCCCTCACCCAGCTACATGTGGTCCTCAAGTGCACCG
CCCCGTTACTCTCCACCCTACTATCCACCTTTTGAAAAGCCACCACCTTACAGTCCC**TAA**AGAGGAATGCCTGCT
GGCTATTGAGATTATTGTGGCTTTTGTATTTCTGCTTCAGTGGAAGTGTGTAGGGTACAAAATTTAAAGTGTGAC
TCTTATGCATAAAGTTTTACAATGGCCTGCCAGGCTAGGGAAAGATAGGGACGAAGCTTATTCATTATTAGTGCA
GAGCAGGGGTGGTCAGGCTGAACGCAGCACAGAAGGGCAGCTCACATTCTCTAAGCAAGACTGGGGAGCCAGCCC
AGCAAGAAGCTTGTTTGGACTTGCATTACCCTATGCTCCACCTCTGTATTCAGCAGAAGTGTGGTTGCCATCTTT
TTCACTTTATGTAAAGGAGTGTTGCCCTCGGGCCCTTGGCAGATTGCCACCCCAGCACCTAGGTTGAAGCACCTG
GTTTATAGGCCCTATCTTTCCCTACCCCTAAAGTCAGTCCCTAAGGACAATTTCCCAGCTGATGGGGCTACACAG
TAGTTCCAATACAGAGAGTTCTGGCTAAGATTTTGTTTGCTTGTGTCTGGATGTTGAAAAGACTGCCCGTATCT
CTTACTCCTTCCTTCTCTGTGAGTATTGTAAAAATGGCTGTTGTGATCACTCAGCTCAGCTTTTGTTATTGGTAC
CTCCTAAAGGGAAAAGTGCAATATTCTTGCATCTTCAGTAGTGGGGAACAGGATGTATTGTTCCGGAAACACTGA
AATACACAGCAACATGTGAGATGTTTTAAGTAGATCACTTAGGAGACAGTGGTTCTACTACATGTTGCATTATTA
CAAATACATTTGCTACAGGAGATATAAATCTTATGGTTGTAATTCAGAGTTTAAAAATGTTATAAATTAGGTTC
TTGGGTCGTGATATGAATTGTTACTAATCTTTGTGACTATTTAATCTTCAAATATTGTGCTTAACCCCAGCAATC
CGCACGTATCCTGCACCCCACCCCAAAAGAGTCATCTGTATTTTAATGCCACTGGTCTTATCGGTCCTTTTGTCT
GTTGAGACCAGTCATGACAGCATTCAAGATTATGAAAGTGTTACAATGCCGCTTCAAGTCTGCAAAACCTCAAAC
GTAGCCAACTTGACAAATATTTAAGTGTTACGGCAGATTTAAAATCCATCTGGCACACCGTGGTAGGTATTTGTA
CAGTTCTTTTAATTACACATAGCTTTAAACCATCAACCTGATGAGTTTAAAGCTTTTGCACCCATGCCTTCACTT
CAGAATGAACACCTTCATTGTGATCTTATGTTAACCTGAGAATTGATTTAAAGGAAGATTGATAATCCTATACTT
TATAACGTAAAAATACAGGGGCTACAGGAGGGTACCTAATTAGACAGTTCTCCAAACACAGAACACACACTGGAA
AATTTTCCGGCCAATTTTGCTACCTCCCAACTTGATGGATTAGAGGTAGCGCATATGCTGGTGCTCCCATCTACC
TTGTAGACACTTAGCCATCAAGAATCAAGGCACAAGAAGTGCACTCTCTCATTAACAGTAAATGTTTGCAAGATA
TTCAGTTTAACTTTCAGCATCATGAATGTTCTTATCCAGATTTTGAATCCGAAAAACTATAATCCTTTTATGTTA
TACAAAATTACTATGATTTTTTACAGTTCTGAGCATATTAAAATTCTACTGGATTTCAAAAAGAGACTAATACCC
AACTGACTAACTAAACAAATATCAACTTGTAATACTCAATGAATTTTTTTGCCATTTACATTTGACCGTTGGCTT
TAGTGAATGTCCATATTTAATTTTTTAAGGCACCATTACACAGTTTATCCTACATTTATCACATTTCTTAAAGTG
TTAAGATTCTATGGCTCATTTCTATGTATTTTTCTTACTTTACAAAATAACCTGAAACAGTATAGATTTTGTAAC
ACTTAATTTGAGCAGCTTTTTTATTACATTGAATTATATAAAGTGCATGTTACCTTAGAAAAATTAGTATTTGCT
GCTTTACTCTTTTGCAAACATTTGCTGTAATGAATGGATTTGTATTTCCAATATGTATCTTGACTGCATTTTGT
AATATTTACTGCTTTATTCCTAATTCTGCTTTAAAGTACTGAACTGGGCATGAAACATTAAAAATATTAATCCAGA
AACTGTATAAACTGGATGTTGCTTAAAATCTGTATCACTGCCATGTTGAAAATTCAGACTGCTTTTGTGATGTTT
CAAATGAATAAAACTATCCTCCCCTCGTT

2611/2825
FIGURE 2323

MVNCPHLSREFCTPRIRGNTCFCCDLYNCGNRVEITGGYYEYIDVSSCQDIIHLYHLLWSATILNIVGLFLGIIT
AAVLGGFKDMNPTLPALNCSVENTHPTVSYYAHPQVASYNTYYHSPPHLPPYSAYDFQHSGVFPSSPPSGLSDEP
QSASPSPSYMWSSSAPPRYSPPYYPPFEKPPPYSP

2612/2825
FIGURE 2324

AAGGCTATTATTACCACCACTGAGTGGCTTAAATAATCCTGTCAACAGCAATCGCCCATTTCCAAAGCCATGGTG
AAACATCTCTGTGCTAATTTCTTTTGTTTTGTTTCCTAATTTTTTTTTTTGGCAGGTGGTGGGAAATAATCTTT
GTCTTCTTTGGAGTAAACCTTCAACACCGGATTTTTTCTTTTAATTATGGATGTAAACCCCAATATCCCCATAAT
TTACATTGGGTCTCGACCAATTGCCTAATTATAAGAGGATATATTTAGGCTCTTATTTCATCCACACAAAAACTT
GTGTAACAGGTAGTTGGAAACATCTGAGGCACCACTTTGATTCTGTTTTGGATGGTCATGTTTTTTCTCCTCCGT
TTCCCCAGCATGTCTGCCACCATCCTCATGCACTGCTTCCAAGTGCCTGGGAGCCTTTATGAGCGTCCCTAAACC
TAAAAGAATCCAGAGGCGGGGCTCGG**ATG**AACCCTCGAGATAAGCAAGTGAGCCGCTTCTCCCCTCTAAAGGATG
TTTACACGTGGGTGGCACTCGCTGGAATCCAGCGCTCGGGCAGCCCTGGGAGGACGCGCTCAGCTGCGAGGAGGA
TGGAGAGCAATACATCATCATCTTTGGAGAATTTAGCGACGGCGCCTGTGAACCAGATCCAAGAAACAATTTCTG
ATAATTGTGTGGTGATTTTCTCAAAAACATCCTGTTCTTACTGTACAATGGCAAAAAAGCTTTTCCATGACATGA
ATGTTAACTATAAAGTGGTGGAACTGGACCTGCTTGAATATGGAAACCAGTTCCAAGATGCTCTTTACAAAATGA
CTGGTGAAAGAACTGTTCCAAGAATATTTGTCAATGGTACTTTTATTGGAGGTGCAACTGACACTCATAGGCTTC
ACAAAGAAGGAAAATTGCTCCCACTAGTTCATCAGTGTTATTTAAAAAAAAGTAAGAGGAAAGAATTTCAG**TGA**T
GTTTATACTAATAAGTTTGCTAGTACAGTGTCAGTTATTTAAAGTGGTAATGCCCGATAATGTCTTTTAAATGTT
TGAGGATGTTTTAAATACATGCATTGTCTTCACGAAGAAGATGTAAAAATAATGAACAATAAATTGCGGTGGAAA
CCTAAAAAAAAAAAAAAAAAAAAAAAAA

2613/2825
FIGURE 2325

MNPRDKQVSRFSPLKDVYTWVALAGIQRSGSPGRTRSAARRMESNTSSSLENLATAPVNQIQETISDNCVVIFSK
TSCSYCTMAKKLFHDMNVNYKVVELDLLEYGNQFQDALYKMTGERTVPRIFVNGTFIGGATDTHRLHKEGKLLPL
VHQCYLKKSKRKEFQ

FIGURE 2326

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TTCTCACTATACTGGTCCTGAGGAAAGGGCTTCTGTGAACTGCGGTTTTTAGTTTTTATTGTGGTTCTTAGTTCT
CATGAGACCCCTCTTGAGGATATGTGCCTATCTGGTGCCTCTGCTCTCCACTAGTTGAGTGAAAGGAAGGAGGTA
ATTTACCACCATGTTTGGTTCCTGTTTATAAGATGTTTTAAGAAAGATTTGAAACAGATTTTCTGAAGAAAGCAG
AAGCTCTCTTCCCATTATGACTTCGGAAATCACTTATGCTGAAGTGAGGTTCAAAAATGAATTCAAGTCCTCAGG
CATCAACACAGCCTCTTCTGCAGCTTCCAAGGAGAGGACTGCCCCTCACAAAAGTAATACCGGATTCCCCAAGCT
GCTTTGTGCCTCACTGTTGATATTTTTCCTGCTATTGGCAATCTCATTCTTTATTGCTTTTGTCATTTTCTTTCA
AAAATATTCTCAGCTTCTTGAAAAAAAGACTACAAAAGAGCTGGTTCATACAACATTGGAGTGTGTGAAAAAAAA
TATGCCCGTGGAAGAGACAGCCTGGAGCTGTTGCCCAAAGAATTGGAAGTCATTTAGTTCCAACTGCTACTTTAT
TTCTACTGAATCAGCATCTTGGCAAGACAGTGAGAAGGACTGTGCTAGAATGGAGGCTCACCTGCTGGTGATAAA
CACTCAAGAAGAGCAGGATTTCATCTTCCAGAATCTGCAAGAAGAATCTGCTTATTTTGTGGGGCTCTCAGATCC
AGAAGGTCAGCGACATTGGCAATGGGTTGATCAGACACCATACAATGAAAGTTCCACATTCTGGCATCCACGTGA
GCCCAGTGATCCCAATGAGCGCTGCGTTGTGCTAAATTTTCGTAAATCACCCAAAAGATGGGGCTGGAATGATGT
TAATTGTCTTGGTCCTCAAAGGTCAGTTTGTGAGATGATGAAGATCCACTTATGAACTGAACATTCTCCATGAAC
AGGTGGTTGGATTGGTATCTGTCATTGTAGGGATAGATAATAAGCTCTTCTTATTCATGTGTAAGGGAGGTCCAT
AGAATTTAGGTGGTCTGTCAACTATTCTACTTATGAGAGAATTGGTCTATACATTGACTGATTCACTTTTTCATA
AAGTGAGCATTTATTGAGCATTTTTTCATGTGCCAGAGCCTGTACTGGAGGCCCCCATTGTGCACACAGGGAGAG
AACATGAGTCTCTCTTAATTTTTATCTGGTTGCTAAAGAATTATTTACCATTAAATTATATGGTGTGGTGT
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2615/2825
FIGURE 2327

MTSEITYAEVRFKNEFKSSGINTASSAASKERTAPHKSNTGFPKLLCASLLIFFLLLAISFFIAFVIFFQKYSQL
LEKKTTKELVHTTLECVKKNMPVEETAWSCCPKNWKSFSSNCYFISTESASWQDSEKDCARMEAHLLVINTQEEQ
DFIFQNLQEESAYFVGLSDPEGQRHWQWVDQTPYNESSTFWHPREPSDPNERCVVLNFRKSPKRWGWNDVNCLGP
QRSVCEMMKIHL

FIGURE 2328

AGATCAGCTGATGCCGGAGGGTTTGAAGCCGCGCCGCGAGGGAGCGAGGTCGCAGTGACAGCGGCGGGCGATCGG
ACCCAGGCTGCCCCGCCGTACCCGCCTGCGTCCCGCGCTCCCGCCCCAGC**ATG**ACAGCCCCGGCGGGTCCGCGCG
GCTCAGAGACCGAGCGGCTTCTGACCCCCAACCCCGGGTATGGGACCCAGGCGGGGCCTTCACCGGCCCCTCCGA
CACCCCCAGAAGAGGAAGACCTTCGCCGTCGTCTCAAATACTTTTTCATGAGTCCCTGCGACAAGTTTCGAGCCA
AGGGCCGCAAGCCCTGCAAGCTGATGCTGCAAGTGGTCAAGATCCTGGTGGTCACGGTGCAGCTCATCCTGTTTG
GGCTCAGTAATCAGCTGGCTGTGACATTCCGGGAAGAGAACACCATCGCCTTCCGACACCTCTTCCTGCTGGGCT
ACTCGGACGGAGCGGATGACACCTTCGCAGCCTACACGCGGGAGCAGCTGTACCAGGCCATCTTCCATGCTGTGG
ACCAGTACCTGGCGTTGCCTGACGTGTCACTGGGCCGGTATGCGTATGTCCGTGGTGGGGGTGACCCTTGGACCA
ATGGCTCAGGGCTTGCTCTCTGCCAGCGGTACTACCACCGAGGCCACGTGGACCCGGCCAACGACACATTTGACA
TTGATCCGATGGTGGTTACTGACTGCATCCAGGTGGATCCCCCCGAGCGGCCCCCTCCGCCCCCAGCGACGATC
TCACCCTCTTGGAAAGCAGCTCCAGTTACAAGAACCTCACGCTCAAATTCCACAAGCTGGTCAATGTCACCATCC
ACTTCCGGCTGAAGACCATTAACCTCCAGAGCCTCATCAATAATGAGATCCCGGACTGCTATACCTTCAGCGTCC
TGATCACGTTTGACAACAAAGCACACAGTGGGCGGATCCCCATCAGCCTGGAGACCCAGGCCCACATCCAGGAGT
GTAAGCACCCCAGTGTCTTCCAGCACGGAGACAACAGCTTCCGGCTCCTGTTTGACGTGGTGGTCATCCTCACCT
GCTCCCTGTCCTTCCTCCTCTGCGCCCGCTCACTCCTTCGAGGCTTCCTGCTGCAGAACGAGTTTGTGGGGTTCA
TGTGGCGGCAGCGGGGACGGGTCATCAGCCTGTGGGAGCGGCTGGAATTTGTCAATGGCTGGTACATCCTGCTCG
TCACCAGCGATGTGCTCACCATCTCGGGCACCATCATGAAGATCGGCATCGAGGCCAAGAACTTGGCGAGCTACG
ACGTCTGCAGCATCCTCCTGGGCACCTCGACGCTGCTGGTGTGGGTGGGCGTGATCCGCTACCTGACCTTCTTCC
ACAACTACAATATCCTCATCGCCACACTGCGGGTGGCCCTGCCCAGCGTCATGCGCTTCTGCTGCTGCGTGGCTG
TCATCTACCTGGGCTACTGCTTCTGTGGCTGGATCGTGCTGGGGCCCTATCATGTGAAGTTCCGCTCACTCTCCA
TGGTGTCTGAGTGCCTGTTCTCGCTCATCAATGGGGACGACATGTTTGTGACGTTCGCCGCCATGCAGGCGCAGC
AGGGCCGCAGCAGCCTGGTGTGGCTCTTCTCCCAGCTCTACCTTTACTCCTTCATCAGCCTCTTCATCTACATGG
TGCTCAGCCTCTTCATCGCGCTCATCACCGGCGCCTACGACACCATCAAGCATCCCGGCGGCGCAGGCGCAGAGG
AGAGCGAGCTGCAGGCCTACATCGCACAGTGCCAGGACAGCCCCACCTCCGGCAAGTTCCGCCGCGGGAGCGGCT
CGGCCTGCAGCCTTCTCTGCTGCTGCGGAAGGGACCCCTCGGAGGAGCATTCGCTGCTGGTGAAT**TGA**TTCGACC
TGACTGCCGTTGGACCGTAGGCCCTGGACTGCAGAGACCCCCGCCCCCGACCCCGCTTATTTATTTGTAGGGTTT
GCTTTTAAGGATCGGCTCCCTGTCGCGCCCGAGGAGGGCCTGGACCTTTCGTGTCGGACCCTTGGGGGCGGGGAG
ACTGGGTGGGGAGGGTGTTGAATAAA

FIGURE 2329

MTAPAGPRGSETERLLTPNPGYGTQAGPSPAPPTPPEEEDLRRRLKYFFMSPCDKFRAKGRKPCKLMLQVVKILV
VTVQLILFGLSNQLAVTFREENTIAFRHLFLLGYSDGADDTFAAYTREQLYQAIFHAVDQYLALPDVSLGRYAYV
RGGGDPWTNGSGLALCQRYYHRGHVDPANDTFDIDPMVVTDCIQVDPPERPPPPPSDDLTLLESSSSYKNLTLKF
HKLVNVTIHFRLKTINLQSLINNEIPDCYTFSVLITFDNKAHSGRIPISLETQAHIQECKHPSVFQHGDNSFRLL
FDVVVILTCSLSFLLCARSLLRGFLLQNEFVGFMWRQRGRVISLWERLEFVNGWYILLVTSDVLTISGTIMKIGI
EAKNLASYDVCSILLGTSTLLVWVGVIRYLTFFHNYNILIATLRVALPSVMRFCCCVAVIYLGYCFCGWIVLGPY
HVKFRSLSMVSECLFSLINGDDMFVTFAAMQAQQGRSSLVWLFSQLYLYSFISLFIYMVLSLFIALITGAYDTIK
HPGGAGAEESELQAYIAQCQDSPTSGKFRRGSGSACSLLCCCGRDPSEEHSLLVN

FIGURE 2330

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AACAGTATTTTCCTTTTTCAACACATCTATTGAAAGTGTTGGATAAATGCAGGATGTTAATATGCTATAAACATAA
AGTCTGTTTTTAAAAAATAGCATTTGAAAATCATGAAGGGCTTTTTGTTTTCTTTTGTTTGTATATATGTTTATT
GGTAACAGGTGACACTGGAAGCA**ATG**AACACCACAGTGATGCAAGGCTTCAACAGATCTGAGCGGTGCCCCAGAG
ACACTCGGATAGTACAGCTGGTATTCCCAGCCCTCTACACAGTGGTTTTCTTGACCGGCATCCTGCTGAATACTT
TGGCTCTGTGGGTGTTTGTTCACATCCCCAGCTCCTCCACCTTCATCATCTACCTCAAAAACACTTTGGTGGCCG
ACTTGATAATGACACTCATGCTTCCTTTCAAAATCCTCTCTGACTCACACCTGGCACCCTGGCAGCTCAGAGCTT
TTGTGTGTCGTTTTTCTTCGGTGATATTTATGAGACCATGTATGTGGGCATCGTGCTGTTAGGGCTCATAGCCT
TTGACAGATTCCTCAAGATCATCAGACCTTTGAGAAATATTTTTCTAAAAAAACCTGTTTTTGCAAAAACGGTCT
CAATCTTCATCTGGTTCTTTTTGTTCTTCATCTCCCTGCCAAATATGATCTTGAGCAACAAGGAAGCAACACCAT
CGTCTGTGAAAAGTGTGCTTCCTTAAAGGGGCCTCTGGGGCTGAAATGGCATCAAATGGTAAATAACATATGCC
AGTTTATTTTCTGGACTGTTTTTATCCTAATGCTTGTGTTTTATGTGGTTATTGCAAAAAAGTATATGATTCTT
ATAGAAAGTCCAAAAGTAAGGACAGAAAAAACAACAAAAAGCTGGAAGGCAAAGTATTTGTTGTCGTGGCTGTCT
TCTTTGTGTGTTTTGCTCCATTTCATTTTGCCAGAGTTCCATATACTCACAGTCAAACCAACAATAAGACTGACT
GTAGACTGCAAAATCAACTGTTTATTGCTAAAGAAACAACTCTCTTTTTGGCAGCAACTAACATTTGTATGGATC
CCTTAATATACATATTCTTATGTAAAAAATTCACAGAAAAGCTACCATGTATGCAAGGGAGAAAGACCACAGCAT
CAAGCCAAGAAAATCATAGCAGTCAGACAGACAACATAACCTTAGGC**TGA**CAACTGTACATAGGGTTAACTTCTA
TTTATTGATGAGACTTCCGTAGATAATGTGGAAATCAAATTTAACCAAGAAAAAAAGATTGGAACAAATGCTCTC
TTACATTTTATTATCCTGGTGTACAGAAAAGATTATATAAAATTTAAATCCACATAGATCTATTCATAAGCTGAA
TGAACCATTACTAAGAGAATGCAACAGGATACAAATGGCCACTAGAGGTCATTATTTCTTTCTTTCTTTTTTTTT
TTTTTAATTTCAAGAGCATTTCACTTTAACATTTTGGAAAAGACTAAGGAGAAACGTATATCCCTACAAACCTCC
CCTCCAAACACCTTCTCACATTCTTTTCCACAATTCACATAACACTACTGCTTTTGTGCCCCTTAAATGTAGATA
TGTGCTGAAAGAAAAAAAAACGCCCAACTCTTGAAGTCCATTGCTGAAAACTGCAGCCAGGGGTTGAAAGGGAT
GCAGACTTGAAGAGTCTGAGGAACTGAAGTGGGTCAGCAAGACCTCTGAAATCCTGGGTAAAGGATTTTCTCCTT
ACAATTACAAACAGCCTCTTTCACATTACAATAATATACCATAGGAGGCACAAGCACCATTATTAAGCCACTTTG
CTTACACCTTAAGTGTGTACAATTCAAGTGTGAGAATGCTGTGTTAACTATTCTTTGGAATTCTCCTTCTGTCCA
GCAAATACTCTAATGATGGTTAAACATGGCACCTACTCAGCAATGCCTTCCTGGACCACAACCCCTATCCCCCTG
CCCCACCCTCCTCATTAAAAACAAATACTTCTACTGTTTGGGTGTGTGATAGGGTTCTCAATGCAGATCTCCCTT
TTCTAGTTAGCTATATTCTTGACTGCATCCGCTAAAAATGTTAAAGCTTCTTGAGAGACAGACATGCCAGATTTT
CTTGGTATCTCCCATAATACGACCTACAGTCCATGGTCTACAGATGTTTTAAATAGAATTGCTATTCTCGATACA
TACAAAGACGTAATTGCTGACCCACAATCAGTAACATCCATATTGGGAGATTTTTCAAAGGATGGTGACCCTGCT
TGTATTTATTTACCTTGGTATTTTTTCTTGCATCCTTCTGTGATTCAAAAAAGTAAAATGTGGCTTTCTGAAATG
ATGGATAAGAGTCTACATCTTCTAGAAAAAATACATAAAGGAGTAGTTAAGCTCTGTAAATGTGCCACGAGCTCC
AACACGACCATCGTAGGGTGAAGCCCACGTTTTCTTCCATGGCCTCAAAGGCCCTAGAACTTGCCTACCTTTCTG
GCCTTACCTCCTAGCTACTTATCCATCTCTTGAACTTTATACTCTTGTATAAATTTCTAACTTTCAGAAAATGCC
ATACTCTGTTTTGGCACCACACATGTATATTTCCCCCTGGTACACTTGGAAGACTCTTATCCATCTGTGAAACCC
TATGTTGTCATCACTTGGTCCATGAAATATTACCTGGCCAATATCCCACCATCACCTCAAACCCAATCACCCCCT
CCTCTGTATGCTGTCACACCTATATTATTAAACTTATCACATTGCATTGTAATTACTTCCTGACCTTTGTATCTA
CTCTTTTAGTAACTGATGTATATATCTGAAAGGAGAGATTGTTTCATTGTGCAATCAATAAATGTTTGATAAAAT
AAAGCCC
```

FIGURE 2331

MNTTVMQGFNRSERCPRDTRIVQLVFPALYTVVFLTGILLNTLALWVFVHIPSSSTFIIYLKNTLVADLIMTLML
PFKILSDSHLAPWQLRAFVCRFSSVIFYETMYVGIVLLGLIAFDRFLKIIRPLRNIFLKKPVFAKTVSIFIWFFL
FFISLPNMILSNKEATPSSVKKCASLKGPLGLKWHQMVNNICQFIFWTVFILMLVFYVVIAKKVYDSYRKSKSKD
RKNNKKLEGKVFVVVAVFFVCFAPFHFARVPYTHSQTNNKTDCRLQNQLFIAKETTLFLAATNICMDPLIYIFLC
KKFTEKLPCMQGRKTTASSQENHSSQTDNITLG

FIGURE 2332

GTGCGGGGTCAAGCTCTCCGCCTTG**ATG**GTGGCCACTGGGCGGGCGCGTGGAGCCCGGCGGGCTGGGCAGCAGCC
GCCGCCGCCGCTGCGAGTCAACGTGGTGCTCAGCGGCCTCCTCGGCAAGTTGTTTCCAGGCCCAGCGCGAGCGTC
GCAACTCCGGCACGAGGGCAACCGACTGTACCGCGAGCGCCAGGTGGAGGCGGCACTGCTCAAGTACAACGAGGC
AGTTAAGTTGGCTCCAAATGACCACTTGCTTTATAGCAATCGGTCTCAGATTTATTTCACCTTGGAGTCTCATGA
GAATGCACTGCATGATGCAGAAATAGCATGTAAGCTCCGCCCGATGGGTTTTAAGGACAATCTGGAGCTCCCACA
TTGTTCTAGTCAGGAGGAAGCAGCAGCCAGGGGAGATGGCAGCAGTCTGATGGACCCAGCTAAAGTGAAGGGGGA
TGGTCAGCAGCACCACATGAAAGACCAGGAAGAAGAGGAGGAGAAGTGGGATGCTACCTCTCCAAAAGCTGCTTC
CAGCAAGACTGGAAAATGCCAGGAAAAGAAAAGGAAACATTGCCAGATTGAATCCCAAGAAGAAACGGGGATGCC
TAATAAAGCCTCCAAGCAAGATCCTCCCACTGATCAGGGGGACAAACCTGCTCTCAGTTTACCACTTGCATCTTT
CGACGCATCTGACCTTGAATGCGCTCTATGTATGAGATTATTCTATGAGCCAGTCACAACACCTTGCGGGCATAC
TTTTTGCTTAAAATGCCTAGAAAGATGCCTAGATCACAACGCAAAGTGTCCATTGTGCAAAGACGGTCTTTCACA
GTGCTTGGCATCAAGAAAATACAGCAAAAATGTAATAATGGAGGAGCTCATAGCTAAATTCCTTCCAGAAGAACT
GAAGGAACGAAGGAAGCTTTATGAAGAGGAAATGGAAGAACTTTCTAACCTTAATAAGAATGTGCCTATTTTCGT
GTGTACTATGGCCTATCCCACCGTTCCTTGTCCCCTGCACATCTTTGAGCCTTGTTACCGCCTGATGATTCGTAG
ATGCATTGAGACAGGCACGAGACAGTTTGGCATGTGCCTTGGAGATCCTGTCAAAGGGTTTGCAGAATATGGCTG
CATCCTAGAGATCAGAAATGTTCAATTCTTTGCTGATGGCCGCTCAGTGGTTGACAGCATAGGCAAGAGGCGCTT
CAGGGTGCTCCATCAGAGCCAGCGGGATGGCTACAACACAGCCGACATTGAATACATTGAAGACCAAAAGGTTCA
GGGAGAGGATTGTGCTGAGCTCATGGGATTACATAACTGTGTCTATCAGCAAGCGTCATTGTGGTTTCATTCGCT
CAAATTATCCCTAAAGAATCGGATACTCAATCACTTTGGTCCCATGCCGGAGAAAGACGCCGATCCTCAGATGAA
CCCGAATGGCCCAGCCTGGTGCTGGTGGATGTTAGCAGTTCTTCCCTTGGAAAGCCGAGCTCAGCTCCCCTTCCT
AGCAATGAGGTCCTTAAAGGACAGACTGAATGGTATTCGACGAGTCCTGGCCTTCATATCCCGAAACCAAAAC**TA**
GTGAGTGGATTGCCGAAGAGGAGCTCCCACCTTCCCCACTGCCGTCGGGGGGAGTCTTCTTGTAAATATCTAA
TTGCAATAACATCTTAACAGAAGGGGGTGTCAAACAGAGGCATCAGCCTGCTGTTGATCACAGAGAGAAATTGAG
TAGAAAGACCAAAAGAATGTGACCTATTTGAAACTTTCTGTCTTAAGATGCTTCTTGACATGCTGCATAACTACA
TAAACAGCAGAGGTGTTTAAGAGCCCAGAAAAACATAATTTGATTTTAACATTAAAATTTCCAAAAGTTTAAAAA
AAAAAAAAAAAAAAA

FIGURE 2333

MVATGRARGARRAGQQPPPPLRVNVVLSGLLGKLFPGPARASQLRHEGNRLYRERQVEAALLKYNEAVKLAPNDH
LLYSNRSQIYFTLESHENALHDAEIACKLRPMGFKDNLELPHCSSQEEAAARGDGSSLMDPAKVKGDGQQHHMKD
QEEEEEKWDATSPKAASSKTGKCQEKKRKHCQIESQEETGMPNKASKQDPPTDQGDKPALSLPLASFDASDLECA
LCMRLFYEPVTTPCGHTFCLKCLERCLDHNAKCPLCKDGLSQCLASRKYSKNVIMEELIAKFLPEELKERRKLYE
EEMEELSNLNKNVPIFVCTMAYPTVPCPLHIFEPCYRLMIRRCIETGTRQFGMCLGDPVKGFAEYGCILEIRNVQ
FFADGRSVVDSIGKRRFRVLHQSQRDGYNTADIEYIEDQKVQGEDCAELMGLHNCVYQQASLWFHSLKLSLKNRI
LNHFGPMPEKDADPQMNPNGPAWCWWMLAVLPLESRAQLPFLAMRSLKDRLNGIRRVLAFISRNQN

FIGURE 2334A

GACAGACAGG**ATG**GACTTCCTCCGGCTATACCTCCCTGGGCTGCACCAGGCCTTGAGGGGGGCACTGGATTCCCT
CGGCACCTTTGTCTCCTACCTCCTGGGGAGATGCAGTCCCCACTGTAGAGCGGGAGGCGCAGGCGGCTGAGGAACT
GGGGGTGGTGGCGGTGGGAAAGACAGGGAAGATTGTAGAGGAGGAAGCCCAGGAGGACCTGGAGGGCCTTAGAGG
CAGCCAAAACGAGGGGGCTGGAAGGCTGAGAGGGCCTGGAGATGACAGAAGACATGAAGTGGGGAGCTCAGCTGT
AGAACAGACCTGGGGCTGGGGAGATGGCAGCTCCCATGGGTCCCAAGCAGAGAGGCAGGACAGTGGGGCTGGGGA
GACAGCCAAGGCTGCCAGGTGCCAGGAGCCAAGCGCCCACTTGGAGGCCAGAAAGAAATCCAAGGCAGGGTCTGG
GGCTTGCCAAGACAGGAGCGGCCAAGCCCAGGAGAGGCAGGAGTCCCATGAGCAGGAAGTGAACAGAGAAGAGAG
GCTGAGAAGCTGGGAACAGGAGGAGGAGGAGGAAGAGGTCAGGGCAAGAGAGCCAGGGATGGCCAGAGGGGCGGA
GTCAGAGTGGACCTGGCATGGGGAGACGGAGGGGAAGGCTGGTGCTGTTGGGCCAAAGGCGGCAGGGGACAACCG
GGAGATGGAGCAGGGGGTCAGGGAGGCAGATGCAGGGGAAACTGAGGAGCCTGGGGCCGAAGGGGCTGGGAAAGG
AGAAGAGGTGGTAGTGGTGGAGAAGGCCTGTGAAAGCACTAGGGCATGGGGGACGTGGGGCCCAGGGGCAGAGCC
TGAGGACTGGGGAATCTTAGGCAGAGAGGAGGCCAGGACAACCCCAGGTAGGGAAGAGGCCAGGGCAATTTTAGA
TGGGGAGGAAGCCAGGACAATCTCAGGCGGGGAGGAGGCTGAGACAGCCTCAGGCGGGGAGGAGGCTGAAACAGC
CTCAGGCGGGGAGGAGGCCGGGACAGCCTCGGGAGGGGAGGAGGCCGGGATATCCTCAGGCGGGGAGGCTGGGAC
AGCCTCAGGAGGGGAGGAGGCCGGGACAGCCTCAGGAGGGGACGAGGCCTGGACAACCTCAGGCAAAGAGGAGGC
TGACCTGCTGGGAGTCAGACAGACTCAATATGGAGCAGTTCCAGGAGAAAGGCTCCTAGAGGCTACTGGAAAAGT
CTGGGTCCTAGAGGAGGAGGGGGATGAGGAGAGAGAGGCTGAGGTGAGCCCTTTCCCCAAACAGGCCCAGGTCCT
GGGCACTGAAAGAACAGAAGAGGCTGCTGAGAGCCAGACCGCAGGGAGGGAAGCTGTGGGAGGCCAGGAGGCAGG
GGAGAGCTTTGAGGGCCAGGTAGACCTGCGTGGTAAGGAGGCTGAGATGAGGCAGGACTTGGGGATCAGGGCCGA
CCGGGCCAGGATGGAAGAGCTGGTACAGGCAGAGGAGGCCCAGGAGGAGAGAGGGAGCAGCAGGGATCCAGTGGC
TGAGCTGCCCTCAGATGGAGAGGCTGAAGGCACTGCCGACTTGGAGGCAACTCCAGAGGCCAGGCCTGAGGAGGA
GCTCACAGGGGAGGAGAGTGAGGCGGCCCAGACTAGCTGTGGCCTACTGGGCGTGGAATGGGGTGGCCTCACACA
CAGCGTCACCAAAGGCCAGGGACCTGAGCTGATGGGGGGTGCCCAGACCCCAACTAAGCAACCCGAGGAAAGGGA
GGCAGGGGAGGTGGAGCTCATGGGAGTTCTGGCCCTGAGCAAAGAGGAGCAGGAGAGGAGCCTGGAGGCAGGTCC
CAGGCACGCGGGGTCTGTAAAGCCTGAGGCCTCCGAGGCCTTCCCAGGAGCCTGGGAAAACCGCACGAGAAAGGA
CATGGAGAGAGGAAATACTCAGGAGGATGCGGCCGATGGCGAGCAGCGGGAGGAGGAGGAGACTGCGGGAGGCCA
GACCCTGGCGGCTGAGGCTGAAGGAGACCGAGAGTCTGAACTATCAGAAGTCCCAGAGGCAGGCGGGGAGGGGCT
GACAACCCAGGACGCGGGATGTGGAACTGAGGAGGGAGAGGCATCTGTCTCAGAGAACCAGGAGCTGGACGGAAG
CACAGGGGCAGACGCAGGGCCTTGCCCGTCACTGGGAGAGGCCTATGCCAGAGAAACTGAGGATGAGGAGGCGGA
GGCTGACAGAACATCCAGAAGAGGCTGGAGGCTGCAAGCGGTGGCTGTGGGCCTCCCGGACCGTGAGGATGCACA
GACTGGCTCTGTGGCTGCTGGGATTATGGGGGGTGATGTGGTCCCACACATCAGCGCTGCTGGCGCTGGTGAAGC
TTTGGAAGGGGCGCTTGGGCAAGGCTGGGACTCGAAAGAAAAGGAAGAGGCAGCAGCAGGAGAGCATGCAGGTGG
GCAAGAATTTGGTCTGGAGGGCTCAGCAGAGGAAGAGGTGACTGGCAGAGGCAGCCAAGTAGAGGCTTTTGAGTC
CAGGGAGGGAGGACCTTGGGGAGGGCGGGTAGAGGCCGAGGAATCTGCAGGCGCAGAGGACAGCTGTGGGCTGGA
TCCCGCGGGCTCCCAGACAGCGAGGGCAGAGGGGATGGGAGCCATGGTGGAGGCTGGGGGGCTTCTAGAAAAGTG
GACGCTGTTGGAAGAAGAGGCTGTTGGATGGCAGGAGAGAGAACAGAGGGAAGACAGTGAGGGGCGGTGTGGGA
CTACCACCCTGAGGGAGAGGCACCAAGGCTCCTTGATGCAGAGGGTCTCATGGTGACCGGGGGCCGGAGGGCAGA
GGCCAAGGAGACTGAGCCAGAAAGCCTGGAACATGTCAGGGGCCAGGAGGAGCAGCCAACACACCAGGCCCCTGC
AGAAGCTGCGCCGGAGTCAGTCGGGGAAGCCGAGACGGCTGAGGCCATGGGCAGTGCCAGAGGAGGTGCTGCCAA
CAGCTGGAGCGAGGCCCCGCTCCCCGGGTCCCTCCTAGACGTCTCTGTCCCAAGGAGTCGCGTGCACCTCTCGAG
AAGCTCCTCACAGCGTCGCTCCCGGCCCTCTTTTCGTCGGACTCCGGCCTGGGAGCAGCAGGAGGAGCCCCCAGC
CCCCAACCCTCCTGAGGAGGAGCTGTCAGCTCCTGAGCAGAGACCCCTCCAGCTGGAGGAACCCCTGGAGCCAAG
CCCTCTGAGGCATGATGGGACCCCGGTGCCAGCCAGGAGAAGGCCCCTGGGACACGGGTTTGGCCTCGCGCACCC
TGGCATGATGCAGGAGCTGCAAGCCCGTCTGGGCCGGCCTAAGCCCCAG**TGA**CTGAGACCCGGTGCTCTGGGAGC
CAGGCCCTGAGTGGGTGCCAGAAGGCTTGCTCCAATGCCACTGAGCCCTGCTCCCTCTGCCACTGTGGACACATC
CTCTCCACCCTCTGGGCCTCAGTGTCTTGATGTATCATTCATGGAGCAGGCAAAACCAGACGTCTGGGAATACCG
TGAACTTAAGGAGTCTGATTCTCCGACACAGGCTGGTGGACCACCTACCCCACTGAGACCACCTCTCAGGGTGCC
TGCCCTGGTTCCTCCCCAGCCTGAGTCAGCTGTCTGGACTGCAAGGAGGCTGGGCACGGGGGCTCACGCCTGTCA

2623/2825
FIGURE 2334B

CCCCAGAGCTTTGGGAGGCCAAGGTGGGAGGATCGCTTGAGACCAGGAGTTCGAGACCAGCCTGGGCAGCATAGC
AAGATCCCCATCTTTTAAAAACAAAATAAAACAATAAAGACTGCAAGGAAAAAAAAAAAAAAAAAAAA

FIGURE 2335

MDFLRLYLPGLHQALRGALDSLGTFVSYLLGDAVPTVEREAQAAEELGVVAVGKTGKIVEEEAQEDLEGLRGSQN
EGAGRLRGPGDDRRHEVGSSAVEQTWGWGDGSSHGSQAERQDSGAGETAKAARCQEPSAHLEARKKSKAGSGACQ
DRSGQAQERQESHEQEVNREERLRSWEQEEEEEEVRAREPGMARGAESEWTWHGETEGKAGAVGPKAAGDNREME
QGVREADAGETEEPGAEGAGKGEEVVVVEKACESTRAWGTWGPGAEPEDWGILGREEARTTPGREEARAILDGEE
ARTISGGEEAETASGGEEAETASGGEEAGTASGGEEAGISSGGEAGTASGGEEAGTASGGDEAWTTSGKEEADLL
GVRQTQYGAVPGERLLEATGKVWVLEEEGDEEREAEVSPFPKQAQVLGTERTEEAAESQTAGREAVGGQEAGESF
EGQVDLRGKEAEMRQDLGIRADRARMEELVQAEEAQEERGSSRDPVAELPSDGEAEGTADLEATPEARPEEELTG
EESEAAQTSCGLLGVEWGGLTHSVTKGQGPELMGGAQTPTKQPEEREAGEVELMGVLALSKEEQERSLEAGPRHA
GSVKPEASEAFPGAWENRTRKDMERGNTQEDAADGEQREEEETAGGQTLAAEAEGDRESELSEVPEAGGEGLTTQ
DAGCGTEEGEASVSENQELDGSTGADAGPCPSLGEAYARETEDEEAEADRTSRRGWRLQAVAVGLPDREDAQTGS
VAAGIMGGDVVPHISAAGAGEALEGALGQGWDSKEKEEAAAGEHAGGQEFGLEGSAEEEVTGRGSQVEAFESREG
GPWGGRVEAEESAGAEDSCGLDPAGSQTARAEGMGAMVEAGGLLEKWTLLEEEAVGWQEREQREDSEGRCGDYHP
EGEAPRLLDAEGLMVTGGRRAEAKETEPESLEHVRGQEEQPTHQAPAEAAPESVGEAETAEAMGSARGGAANSWS
EAPLPGSLLDVSVPRSRVHLSRSSSQRRSRPSFRRTPAWEQQEEPPAPNPPEEELSAPEQRPLQLEEPLEPSPLR
HDGTPVPARRRPLGHGFGLAHPGMMQELQARLGRPKPQ

FIGURE 2336

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GCCTGTCGCAGGCGTGCAGGGACCTGGACTCCGCCTCGTCCCCGGGGCTCGGGCAGCCGAGCCATGGCGGGGAAC
TGTGGGGCCCGCGGCGCGCTGTCGGCGCACACGCTGCTGTTCGACCTGCCGCCCGCGCTGCTCGGAGAGCTCTGC
GCTGTTCTGGACAGCTGCGACGGCGCGCTGGGCTGGCGCGGCCTGGCAGAGAGACTTTCAAGCAGCTGGCTGGAT
GTTCGTCATATTGAAAAGTATGTAGACCAAGGTAAAAGTGGAACAAGAGAATTACTTTGGTCCTGGGCACAGAAA
AACAAGACCATCGGTGACCTTTTACAGGTCCTCCAGGAGATGGGACATCGTCGAGCTATTCATTTAATTACAAAC
TATGGAGCAGTGTTGAGTCCTTCAGAGAAGAGTTATCAGGAAGGTGGATTTCCAAATATATTATTCAAGGAAACA
GCCAATGTCACCGTGGATAATGTTCTTATTCCTGAACATAATGAAAAGGAGTACTGCTTAAATCTTCCATCAGC
TTTCAAAATATCATAGAAGGAACTAGAAATTTCCACAAAGACTTCCTAATTGGAGAAGGAGAGATTTTTGAGGTA
TACAGAGTGGAGATTCAAAACCTAACATATGCTGTCAAATTATTTAAACAGGAGAAAAAAATGCAGTGTAAGAAG
CATTGGAAGAGGTTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCATCACCCAAACATACTAGAGTTGGCTGCA
TATTTTACAGAGACTGAGAAGTTCTGTCTGATTTATCCATACATGAGAAATGGAACACTTTTTGACAGATTGCAG
TGTGTAGGTGACACGGCCCCACTCCCTTGGCACATTCGAATCGGTATATTAATAGGAATATCCAAAGCCATTCAC
TACCTGCACAACGTTCAACCATGCTCGGTCATCTGTGGCAGTATATCAAGTGCAAACATCCTTTTGGATGATCAG
TTTCAACCCAAACTAACTGATTTTGCCATGGCACACTTCCGGTCCCACCTAGAACATCAGAGTTGTACCATAAAT
ATGACCAGCAGCAGCAGTAAACATCTGTGGTACATGCCAGAAGAGTACATCAGACAGGGGAAACTTTCCATTAAA
ACAGATGTCTACAGCTTTGGAATTGTAATAATGGAAGTTCTAACAGGATGTAGAGTAGTGTTAGATGATCCAAAA
CATATCCAGCTGCGGGATCTCCTTAGAGAATTGATGGAGAAGAGAGGCCTGGATTCATGTCTCTCATTTCTAGAT
AAGAAAGTGCCTCCCTGCCCTCGGAATTTCTCTGCCAAGCTCTTCTGTTTGGCAGGCCGGTGTGCTGCAACGCGG
GCAAAGTTAAGACCATCAATGGATGAAGTTTTAAATACTCTTGAAAGTACTCAAGCCAGCTTGTATTTTGCTGAA
GATCCTCCCACATCACTAAAGTCCTTCAGGTGTCCTTCTCCTCTATTCCTGGAGAATGTACCAAGTATTCCAGTG
GAAGATGATGAAAGCCAGAATAACAATTTACTACCTTCTGATGAAGGCCTGAGGATAGACAGAATGACTCAGAAA
ACTCCTTTTGAATGCAGCCAGTCTGAGGTTATGTTTCTGAGCTTGGACAAAAAGCCAGAGAGCAAGAGAAATGAG
GAAGCTTGCAACATGCCCAGTTCTTCTTGTGAAGAAAGTTGGTTCCCAAAGTATATAGTTCCATCCCAGGACTTA
AGGCCCTATAAGGTAAATATAGATCCTTCTTCAGAAGCTCCAGGGCATTCTTGCAGGAGCAGGCCAGTGGAGAGC
AGCTGTTCCTCCAAATTTTCCTGGGATGAATATGAACAGTACAAAAAAGAATAAATTCTACCAGAAGATAAAGAA
AAAAGCAAGTATTGCATAGGCACCTGAGCATAGGTATGACCTTGGGAAGACATTGGCTCCATAAGCAATGCCAAG
AGAATGATCAATAGTGAGTTTGGGTGATGCAGATAAACAATCTGGATAATTCCATTTCTTTTTTCCCAAACCCTC
AAACAGAGTGCCTTAAAAAATTGTTTTATCAGGATAATTGTCTCATGACCAAATCCACGCTCAATTAGAGCCATT
CAAAATTCCTTAAGATCATGGGTTCTGACTTCAGCCAAACAAAACAATCAAAACCTACCAAAAAGGGACTGGATT
GTAATGTCCTCTCCATCATCCTCAGTGTGAGTCCTCAGAGCCTCCATCTGCCAAGAACATTCAGTTGGATTCCAT
CGTTTGGTTTAGCTTGCTTGCACGGGTTGTAGGAAATG
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2626/2825
FIGURE 2337

MAGNCGARGALSAHTLLFDLPPALLGELCAVLDSCDGALGWRGLAERLSSSWLDVRHIEKYVDQGKSGTRELLWS
WAQKNKTIGDLLQVLQEMGHRRAIHLITNYGAVLSPSEKSYQEGGFPNILFKETANVTVDNVLIPEHNEKGVLLK
SSISFQNIIEGTRNFHKDFLIGEGEIFEVYRVEIQNLTYAVKLFKQEKKMQCKKHWKRFLSELEVLLLFHHPNIL
ELAAYFTETEKFCLIYPYMRNGTLFDRLQCVGDTAPLPWHIRIGILIGISKAIHYLHNVQPCSVICGSISSANIL
LDDQFQPKLTDFAMAHFRSHLEHQSCTINMTSSSSKHLWYMPEEYIRQGKLSIKTDVYSFGIVIMEVLTGCRVVL
DDPKHIQLRDLLRELMEKRGLDSCLSFLDKKVPPCPRNFSAKLFCLAGRCAATRAKLRPSMDEVLNTLESTQASL
YFAEDPPTSLKSFRCPSPLFLENVPSIPVEDDESQNNNLLPSDEGLRIDRMTQKTPFECSQSEVMFLSLDKKPES
KRNEEACNMPSSSCEESWFPKYIVPSQDLRPYKVNIDPSSEAPGHSCRSRPVESSCSSKFSWDEYEQYKKE

FIGURE 2338

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CAGTCTTGTTTCGGGGTTCCGGCTGCGTTGGGCTTGCGTGCGGCTCGCTAAGACTATGGCGTCCGGGCCTCATTCG
ACAGCTACTGCTGCCGCAGCCGCCTCATCGGCCGCCCCAAGCGCGGGCGGCTCCAGCTCCGGGACGACGACCACG
ACGACGACCACGACGGGAGGGATCCTGATCGGCGATCGCCTGTACTCGGAAGTTTCACTTACCATCGACCACTCT
CTGATTCCGGAGGAGAGGCTCTCGCCCACCCCATCCATGCAGGATGGGCTCGACCTGCCCAGTGAGACGGACTTA
CGCATCCTGGGCTGCGAGCTCATCCAGGCCGCCGGCATTCTCCTCCGGCTGCCGCAGGTGGCGATGGCAACGGGG
CAGGTGTTGTTTCATCGTTTTTTCTACTCCAAATCTTTCGTCAAACACAGTTTCGAGATTGTTGCTATGGCTTGT
ATTAATCTTGCATCAAAAATCGAAGAAGCACCTAGAAGAATAAGAGATGTGATTAATGTATTCCACCACCTCCGC
CAGTTAAGAGGAAAAAGGACTCCAAGCCCCCTGATCCTTGATCAGAACTACATTAACACCAAAAATCAAGTTATC
AAAGCAGAGAGGAGGGTGCTAAAGGAGTTGGGATTTTGTGTTCATGTCAAGCATCCTCATAAGATCATTGTTATG
TATTTACAAGTCTTAGAATGTGAACGTAATCAAACCCTGGTTCAAACTGCCTGGAATTACATGAATGACAGTCTT
CGAACCAATGTGTTTGTTCGATTTCAACCAGAGACTATAGCATGTGCTTGCATCTACCTTGCAGCTAGAGCACTT
CAGATTCCGTTGCCAACTCGTCCCCATTGGTTTCTTCTTTTTGGTACTACAGAAGAGGAAATCCAGGAAATCTGC
ATAGAAACACTTAGGCTTTATACCAGAAAAAAGCCAAACTATGAATTACTGGAAAAAGAAGTAGAAAAAAGAAAA
GTAGCCTTACAAGAAGCCAAATTAAAAGCAAAGGGATTGAATCCGGATGGAACTCCAGCCCTTTCAACCCTGGGT
GGATTTTCTCCAGCCTCCAAGCCATCATCACCAAGAGAAGTAAAAGCTGAAGAGAAATCACCAATCTCCATTAAT
GTGAAGACAGTCAAAAAAGAACCTGAGGATAGACAACAGGCTTCCAAAAGCCCTTACAATGGTGTAAGAAAAGAC
AGCAAGAGAAGTAGAAATAGCAGAAGTGCAAGTCGATCGAGGTCAAGAACACGATCACGTTCTAGATCACATACT
CCAAGAAGACACTATAATAATAGGCGGAGTCGATCTGGAACATACAGCTCGAGATCAAGAAGCAGGTCCCGCAGT
CACAGTGAAAGCCCTCGAAGACATCATAATCATGGTTCTCCTCACCTTAAGGCCAAGCATACCAGAGATGATTTA
AAAAGTTCAAACAGACATGGTCATAAAAGGAAAAAATCTCGTTCTCGATCTCAGAGCAAGTCTCGGGATCACTCA
GATGCAGCCAAGAAACACAGGCATGAAAGGGGACATCATAGGGACAGGCGTGAACGATCTCGCTCCTTTGAGAGG
TCCCATAAAAGCAAGCACCATGGTGGCAGTCGCTCAGGACATGGCAGGCACAGGCGCTGACTTTGTCTTCCTTTG
AGCCTGCATCAGTTCTTGGTTTTGCCTATCTACCAGTGTGATGTATGGACTCAATCAAAAACATTAAACGCAAAA
CTGATTAGGATTTGATTTCTTGAAACCCTCTAGGTCTCTAGAACACTGAGGACAGTTTCTTTTGAAAAGAACTAT
GTTAATTTTTTTGCACATTAAAATGCCCTAGCAGTATCTAATTAAAAACCATGGTCAGGTTCAATTGTACTTTAT
TATAGTTGTGTATTGTTTATTGCTATAAGAACTGGAGCGTGAATTCTGTAAAAATGTATCTTATTTTTATACAGA
TAAAATTGCAGACACTGTTCTATTTAAGTGGTTATTTGTTTAAATGATGGTGAATACTTTCTTAACACTGGTTTG
TCTGCATGTGTAAAGATTTTTACAAGGAAATAAAATACAAATCTTGTTTTT
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2628/2825
FIGURE 2339

MASGPHSTATAAAAASSAAPSAGGSSSGTTTTTTTTTGGILIGDRLYSEVSLTIDHSLIPEERLSPTPSMQDGLD
LPSETDLRILGCELIQAAGILLRLPQVAMATGQVLFHRFFYSKSFVKHSFEIVAMACINLASKIEEAPRRIRDVI
NVFHHLRQLRGKRTPSPLILDQNYINTKNQVIKAERRVLKELGFCVHVKHPHKIIVMYLQVLECERNQTLVQTAW
NYMNDSLRTNVFVRFQPETIACACIYLAARALQIPLPTRPHWFLLFGTTEEEIQEICIETLRLYTRKKPNYELLE
KEVEKRKVALQEAKLKAKGLNPDGTPALSTLGGFSPASKPSSPREVKAEEKSPISINVKTVKKEPEDRQQASKSP
YNGVRKDSKRSRNSRSASRSRSRTRSRSRSHTPRRHYNNRRSRSGTYSSRSRSRSRSHSESPRRHHNHGSPHLKA
KHTRDDLKSSNRHGHKRKKSRSRSQSKSRDHSDAAKKHRHERGHHRDRRERSRSFERSHKSKHHGGSRSGHGRHR
R

FIGURE 2340A

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GTAGACAGATCCAGGCTCACCAGTCCTGTGCCACTGGGCTTTTGGCGTTCTGCACAAGGCCTACCCGCAGATGCC
ATGCCTGCTCCCCCAGCCTAATGGGCTTTGATGGGGGAAGAGGGTGGTTCAGCCTCTCACGATGAGGAGGAAAGA
GCAAGTGTCCTCCTCGGACATTCTCCGGGTTGTGAAATGTGCTCGCAGGAGGCTTTTCAGGCACAGAGGAGCCAG
CTGGTCGAGCTGCTGGTCTCAGGGTCCCTGGAAGGCTTCGAGAGTGTCCTGGACTGGCTGCTGTCCTGGGAGGTC
CTCTCCTGGGAGGACTACGAGGGCTTCCACCTCCTGGGCCAGCCTCTCTCCCACTTGGCCAGGCGCCTTCTGGAC
ACCGTCTGGAATAAGGGTACTTGGGCCTGTCAGAAGCTCATCGCGGCTGCCCAAGAAGCCCAGGCCGACAGCCAG
TCCCCCAAGCTGCATGGCTGCTGGGACCCCCACTCGCTCCACCCAGCCCGAGACCTGCAGAGTCACCGGCCAGCC
ATTGTCAGGAGGCTCCACAGCCATGTGGAGAACATGCTGGACCTGGCATGGGAGCGGGGTTTCGTCAGCCAGTAT
GAATGTGATGAAATCAGGTTGCCGATCTTCACACCGTCCCAGAGGGCAAGAAGGCTGCTTGATCTTGCCACGGTG
AAAGCGAATGGATTGGCTGCCTTCCTTCTACAACATGTTCAGGAATTACCAGTCCCATTGGCCCTGCCTTTGGAA
GCTGCCACATGCAAGAAGTATATGGCCAAGCTGAGGACCACGGTGTCTGCTCAGTCTCGCTTCCTCAGTACCTAT
GATGGAGCAGAGACGCTCTGCCTGGAGGACATATACACAGAGAATGTCCTGGAGGTCTGGGCAGATGTGGGCATG
GCTGGACCCCCGCAGAAGAGCCCAGCCACCCTGGGCCTGGAGGAGCTCTTCAGCACCCCTGGCCACCTCAATGAC
GATGCGGACACTGTGCTGGTGGTGGGTGAGGCGGGCAGTGGCAAGAGCACGCTCCTGCAGCGGCTGCACTTGCTG
TGGGCTGCAGGGCAAGACTTCCAGGAATTTCTCTTTGTCTTCCCATTCAGCTGCCGGCAGCTGCAGTGCATGGCC
AAACCACTCTCTGTGCGGACTCTACTCTTTGAGCACTGCTGTTGGCCTGATGTTGGTCAAGAAGACATCTTCCAG
TTACTCCTTGACCACCCTGACCGTGTCCTGTTAACCTTTGATGGCTTTGACGAGTTCAAGTTCAGGTTCACGGAT
CGTGAACGCCACTGCTCCCCGACCGACCCCACCTCTGTCCAGACCCTGCTCTTCAACCTTCTGCAGGGCAACCTG
CTGAAGAATGCCCGCAAGGTGGTGACCAGCCGTCCGGCCGCTGTGTCGGCGTTCCTCAGGAAGTACATCCGCACC
GAGTTCAACCTCAAGGGCTTCTCTGAACAGGGCATCGAGCTGTACCTGAGGAAGCGCCATCATGAGCCCGGGGTG
GCGGACCGCCTCATCCGCCTGCTCCAAGAGACCTCAGCCCTGCACGGTTTGTGCCACCTGCCTGTCTTCTCATGG
ATGGTGTCCAAATGCCACCAGGAACTGTTGCTGCAGGAGGGGGGGTCCCCAAAGACCACTACAGATATGTACCTG
CTGATTCTGCAGCATTTTCTGCTGCATGCCACCCCCCCAGACTCAGCTTCCCAAGGTCTGGGACCCAGTCTTCTT
CGGGGGCCGCCTCCCCACCCTCCTGCACCTGGGCAGACTGGCTCTGTGGGGCCTGGGCATGTGCTGCTACGTGTTC
TCAGCCCAGCAGCTCCAGGCAGCACAGGTCAGCCCTGATGACATTTCTCTTGGCTTCCTGGTGCGTGCCAAAGGT
GTCGTGCCAGGGAGTACGGCGCCCCTGGAATTCCTTCACATCACTTTCCAGTGCTTCTTTGCCGCGTTCTACCTG
GCACTCAGTGCTGATGTGCCACCAGCTTTGCTCAGACACCTCTTCAATTGTGGCAGGCCAGGCAACTCACCAATG
GCCAGGCTCCTGCCCACGATGTGCATCCAGGCCTCGGAGGGAAAGGACAGCAGCGTGGCAGCTTTGCTGCAGAAG
GCCGAGCCGCACAACCTTCAGATCACAGCAGCCTTCCTGGCAGGGCTGTTGTCCCGGGAGCACTGGGGCCTGCTG
GCTGAGTGCCAGACATCTGAGAAGGCCCTGCTCCGGCGCCAGGCCTGTGCCCGCTGGTGTCTGGCCCGCAGCCTC
CGCAAGCACTTCCACTCCATCCCGCCAGCTGCACCGGGTGAGGCCAAGAGCGTGCATGCCATGCCCGGGTTCATC
TGGCTCATCCGGAGCCTGTACGAGATGCAGGAGGAGCGGCTGGCTCGGAAGGCTGCACGTGGCCTGAATGTTGGG
CACCTCAAGTTGACATTTTGCAGTGTGGGCCCCACTGAGTGTGCTGCCCTGGCCTTTGTGCTGCAGCACCTCCGG
CGGCCCGTGGCCCTGCAGCTGGACTACAACTCTGTGGGTGACATTGGCGTGGAGCAGCTGCTGCCTTGCCTTGGT
GTCTGCAAGGCTCTGTATTTGCGCGATAACAATATCTCAGACCGAGGCATCTGCAAGCTCATTGAATGTGCTCTT
CACTGCGAGCAATTGCAGAAGTTAGCTCTATTCAACAACAAATTGACTGACGGCTGTGCACACTCCATGGCTAAG
CTCCTTGCATGCAGGCAGAACTTCTTGGCATTGAGGCTGGGGAATAACTACATCACTGCCGCGGGAGCCCAAGTG
CTGGCCGAGGGGCTCCGAGGCAACACCTCCTTGCAGTTCCTGGGATTCTGGGGCAACAGAGTGGGTGACGAGGGG
GCCCAGGCCCTGGCTGAAGCCTTGGGTGATCACCAGAGCTTGAGGTGGCTCAGCCTGGTGGGGAACAACATTGGC
AGTGTGGGTGCCCAAGCCTTGGCACTGATGCTGGCAAAGAACGTCATGCTAGAAGAACTCTGCCTGGAGGAGAAC
CATCTCCAGGATGAAGGTGTATGTTCTCTCGCAGAAGGACTGAAGAAAAATTCAAGTTTGAAAATCCTGAAGTTG
TCCAATAACTGCATCACCTACCTAGGGGCAGAAGCCCTCCTGCAGGCCCTTGAAAGGAATGACACCATCCTGGAA
GTCTGGCTCCGAGGGAACACTTTCTCTCTAGAGGAGGTTGACAAGCTCGGCTGCAGGGACACCAGACTCTTGCTT
TGAAGTCTCCGGGAGGATGTTCGTCTCAGTTTGTTTGTGAGCAGGCTGTGAGTTTGGGCCCCAGAGGCTGGGTGA
CATGTGTTGGCAGCCTCTTCAAAATGAGCCCTGTCCTGCCTAAGGCTGAACTTGTTTTCTGGGAACACCATAGGT
CACCTTTATTCTGGCAGAGGAGGGAGCATCAGTGCCCTCCAGGATAGACTTTTCCCAAGCCTACTTTTGCCATTG
ACTTCTTCCCAAGATTCAATCCCAGGATGTACAAGGACAGCCCCTCCTCCATAGTATGGGACTGGCCTCTGCTGA
TCCTCCCAGGCTTCCGTGTGGGTCAGTGGGGCCCATGGATGTGCTTGTTAACTGAGTGCCTTTTGGTGGAGAGGC
```

FIGURE 2340B

CCGGCCTCTCACAAAAGACCCCTTACCACTGCTCTGATGAAGAGGAGTACACAGAACACATAATTCAGGAAGCAG
CTTTCCCCATGTCTCGACTCATCCATCCAGGCCATTCCCCGTCTCTGGTTCCTCCCCTCCTCCTGGACTCCTGCA
CACGCTCCTTCCTCTGAGGCTGAAATTCAGAATATTAGTGACCTCAGCTTTGATATTTCACTTACAGCACCCCCA
ACCCTGGCACCCAGGGTGGGAAGGGCTACACCTTAGCCTGCCCTCCTTTCCGGTGTTTAAGACATTTTTGGAAGG
GGACACGTGACAGCCGTTTGTTCCCCAAGACATTCTAGGTTTGCAAGAAAAATATGACCACACTCCAGCTGGGAT
CACATGTGGACTTTTATTTCCAGTGAAATCAGTTACTCTTCAGTTAAGCCTTTGGAAACAGCTCGACTTTAAAAA
GCTCCAAATGCAGCTTTAAAAAATTAATCTGGGCCAGAATTTCAAACGGCCTCACTAGGCTTCTGGTTGATGCCT
GTGAACTGAACTCTGACAACAGACTTCTGAAATAGACCCACAAGAGGCAGTTCCATTTCATTTGTGCCAGAATGC
TTTAGGATGTACAGTTATGGATTGAAAGTTTACAGGAAAAAAAATTAGGCCGTTCCTTCAAAGCAAATGTCTTCC
TGGATTATTCAAAATGATGTATGTTGAAGCCTTTGTAAATTGTCAGATGCTGTGCAAATGTTATTATTTTAAACA
TTATGATGTGTGAAAACTGGTTAATATTTATAGGTCACTTTGTTTTACTGTCTTAAGTTTATACTCTTATAGACA
ACATGGCCGTGAACTTTATGCTGTAAATAATCAGAGGGGAATAAACTGTTGAGTCAAAAC

2631/2825
FIGURE 2341

MGEEGGSASHDEEERASVLLGHSPGCEMCSQEAFQAQRSQLVELLVSGSLEGFESVLDWLLSWEVLSWEDYEGFH
LLGQPLSHLARRLLDTVWNKGTWACQKLIAAAQEAQADSQSPKLHGCWDPHSLHPARDLQSHRPAIVRRLHSHVE
NMLDLAWERGFVSQYECDEIRLPIFTPSQRARRLLDLATVKANGLAAFLLQHVQELPVPLALPLEAATCKKYMAK
LRTTVSAQSRFLSTYDGAETLCLEDIYTENVLEVWADVGMAGPPQKSPATLGLEELFSTPGHLNDDADTVLVVGE
AGSGKSTLLQRLHLLWAAGQDFQEFLFVFPFSCRQLQCMAKPLSVRTLLFEHCCWPDVGQEDIFQLLLDHPDRVL
LTFDGFDEFKFRFTDRERHCSPTDPTSVQTLLFNLLQGNLLKNARKVVTSRPAAVSAFLRKYIRTEFNLKGFSEQ
GIELYLRKRHHEPGVADRLIRLLQETSALHGLCHLPVFSWMVSKCHQELLLQEGGSPKTTTDMYLLILQHFLLHA
TPPDSASQGLGPSLLRGRLPTLLHLGRLALWGLGMCCYVFSAQQLQAAQVSPDDISLGFLVRAKGVVPGSTAPLE
FLHITFQCFFAAFYLALSADVPPALLRHLFNCGRPGNSPMARLLPTMCIQASEGKDSSVAALLQKAEPHNLQITA
AFLAGLLSREHWGLLAECQTSEKALLRRQACARWCLARSLRKHFHSIPPAAPGEAKSVHAMPGFIWLIRSLYEMQ
EERLARKAARGLNVGHLKLTFCSVGPTECAALAFVLQHLRRPVALQLDYNSVGDIGVEQLLPCLGVCKALYLRDN
NISDRGICKLIECALHCEQLQKLALFNNKLTDGCAHSMAKLLACRQNFLALRLGNNYITAAGAQVLAEGLRGNTS
LQFLGFWGNRVGDEGAQALAEALGDHQSLRWLSLVGNNIGSVGAQALALMLAKNVMLEELCLEENHLQDEGVCSL
AEGLKKNSSLKILKLSNNCITYLGAEALLQALERNDTILEVWLRGNTFSLEEVDKLGCRDTRLLL

FIGURE 2342

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GCGCGCCACGGCAGGAAAGGGCGGTCCTGCGCTGTGGCCCACGCTCGCTCCCGCTGTCGGACTCTGGGCCTGGAC
CGCGCGTGGCCGGCGCCAAAAGCGAGAGGCATGAGCGCGCGCCCCGGGCCAGTGAACTGCTCGGGGATGGACTGCG
GCTCGGTCGGCGGCCAGAGGACCCAGCGCCTGCCCGGCCGCCAGCGGCTTCTCTTCTTGCCCGTGGGCCTCAGCG
GAAGACCGGGCGGCAGCGAAACCTCAGCACGCCGCTGCCCCTCTGCGCTCTCCGACGGTCTGGGGGCGCTGCGCC
CTCGCGCCCCGGCGGCCCGCGGCGGCGTGTCACGTGCCTCACCGCTGCTCCTCCTCCTGCTAGTGCCCTCCCCGC
GCTTGGCCGCCGCAGCCCCGCGCCGGCAGCTCGGGGACTGGGAGCGCTCGCGCCTCGGGTATGCCGCACCCCCGG
CCGGGCGCAGCGGCGCGTGGAGGTGCTCACCGGGCGTCGCCGCTGCCGCCGGCGCCCTTCCCCAGTACCACGGCC
CGGCGCCTGCACTCGTTTCCTGCAGGAGAGAGCTAAGCTTGTCTGCTGGATCCCTGCAGCTGGAGCGCAAAAGGA
GAGATTTCACCTCTTCTGGGAGCAGGAAACTCTACTTCGACACTCATGCCTTAGTGTGCTTACTGGAAGACAATG
AATCTCACTCTTTCATCCAGGCTGGAGTGCAGTGGCACAGTCTTGGCCTACTGCAACCCCCACCTCCGGTTTCA
AGCGATCCTCCCACCTCATCCTCCTGAGTAGCTGGGATTACAGGCATGCACCACCACACCTGGATAATTTTTCTG
TATTTTTACTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTGCTGACCTCAAGTGATCCACCCA
CCTTGGCCTCCTAAAGTGCTGGGATTACAGGCGTGAACCACTGTGTCCAGTTGCCAAACCTAATTATGTTTAAAC
ATGAACTCTTTTTTTAATTAAAATTTTTTAAAATTTTATTTACATTAAAATGGAGATGGGATCACTATGTTGCCC
ATGCTGGTTCTGAACTCCTGGGCTCAAAGATCCTCCCGCCTTGGTCTCCCAGAGTGTTAGGATTACAGGCGTGAG
CCACCACACCCAGCCAGTGAACTCTTCTTAATAAAACTTTAAAATTTGGCAAAAGTTTAGTTTGAGTTTTTAAAA
ACTAGGAAGACAGACGAGAAAAAAGAAACAGAGTCAGAGCTAAACAATGTTAACATTTTGGGTTTGCTACTCAA
CAAGCAGAAATCATTGTGTCTGCATTGGTCAAGATCCTGGAGGCCAACATGGACATCGTCTACAAAGATATGGTC
ACCAAGATGCAGCAGGAAATCACTTTTCAGCAAGTAATGTCTCAGATTGCGAATGTGAAAAAGGATATGATTATT
TTGGAGAAGAGTGAATTTTCAGCCCTCAGAGCAGAAAATGAGAAAATAAAACTCGAACTACATCAGTTAAAACAA
CAAGTAATGGATGAAGTGATCAAAGTCCGAACAGATACCAAATTAGACTTCAACCTAGAAAAGAGCAGAGTAAAA
GAATTGTATTCATTGAACGAAAAGAAGCTGCTGGAATTGAGAACAGAAATAGTGGCATTGCATGCCCAGCAAGAT
CGGGCCCTTACCCAGACAGACAGGAAGATCGAAACTGAGGTTGCTGGCCTCAAAACCATGCTTGAGTCACACAAG
CTTGATAATATTAAATATTTAGCAGGGTCTATATTTACGTGCCTAACAGTAGCTCTGGGATTTTATCGCCTGTGG
ATCTAATAAAGTGTCTATTTAAAGTGAAAAAAAAAAAAAAAA
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2633/2825
FIGURE 2343

MDCGSVGGQRTQRLPGRQRLLFLPVGLSGRPGGSETSARRCPSALSDGLGALRPRAPAARGGVSRASPLLLLLLV
PSPRLAAAAPRRQLGDWERSRLGYAAPPAGRSGAWRCSPGVAAAAGALPQYHGPAPALVSCRRELSLSAGSLQLE
RKRRDFTSSGSRKLYFDTHALVCLLEDNESHSFIQAGVQWHSLGLLQPPPPGFKRSSHLILLSSWDYRHAPPHLD
NFSVFLLETGFHHVGQAGLKLLTSSDPPTLAS

FIGURE 2344

ATTCCAAGTCGCTGCTGTGCAGAGCAGCAAGTGCTCCGTGCAGGGCTGTTGCTATCACTTGGAGGTGAACAGCCT
CTTTTGCCGGTATTCAGTGAAGAAAGCAAGTCTAAATATGCAGTTCTCTCACTGGAGTGAAAGATGTTTTGTTCA
TTTCTAATCAACT**ATG**CTAGACAGCTGCAAGCTGAAAAGTGCCTGCAATTTGCCATTTATTTGTAATAAGAAAAT
AATAAACACTGCTGGAACCAGTAATGCAGAAGTCCCCTTGGCTGATCCCGGAATGTACCAGCTGGACATTACATT
AAGAAGGGGTCAAAGTTTAGCTGCTCGAGATCGAGGAGGGACGAGTGATCCATATGTGAAGTTTAAAATCGGAGG
AAAAGAAGTTTTTAGAAGTAAGATAATACACAAGAACCTCAACCCTGTGTGGGAAGAAAAAGCTTGTATTCTGGT
TGATCATCTTAGGGAGCCATTGTATATAAAGGTATTTGACTATGATTTTGGACTACAGGATGACTTTATGGGCTC
AGCCTTTCTGGATCTGACACAATTGGAGTTAAACAGGCCCACAGATGTGACCCTTACTCTGAAAGATCCTCATTA
TCCTGACCATGATCTTGGAATCATTTTGCTCTCAGTCATCCTTACCCCTAAAGAAGGAGAGTCCAGGGATGTGAC
AATGCTAATGAGGAAGAGTTGGAAAAGATCAAGTAAGTTTCAGACCCAAAGTTTACGCCTATCAGACCTACACAG
AAAATCGCATCTTTGGAGAGGAATAGTCAGCATCACCTTGATTGAAGGGAGAGACCTCAAGGCCATGGATTCCAA
CGGGTTGAGCGATCCCTACGTGAAGTTCCGGCTTGGGCATCAGAAGTACAAGAGCAAGATTATGCCAAAAACGTT
GAATCCTCAGTGGAGGGAACAATTTGATTTTCACCTTTATGAAGAAAGAGGAGGAGTCATTGATATCACTGCATG
GGACAAAGATGCTGGGAAAAGGGATGATTTCATTGGCAGGTGCCAGGTCGACCTGTCAGCCCTCAGTAGGGAACA
GACGCACAAGCTGGAGTTGCAGCTGGAAGAGGGTGAGGGACACCTGGTGCTGCTGGTCACTCTGACAGCATCAGC
CACAGTCAGCATCTCTGACCTGTCTGTCAACTCCCTGGAGGACCAGAAGGAACGAGAGGAGATATTAAAGAAATA
TAGCCCATTGAGGATATTTCACAACCTGAAAGATGTGGGATTTCTCCAGGTGAAAGTCATCAGAGCGGAAGGGTT
AATGGCTGCCGACGTCACTGGAAAAAGTGACCCATTTTGTGTGGTAGAACTGAACAACGATAGACTGCTAACACA
TACTGTCTACAAAAATCTCAATCCTGAGTGGAATAAAGTCTTCACGTTCAACATTAAAGATATCCATTCAGTTCT
TGAAGTGACAGTTTATGATGAAGATCGGGATCGAAGTGCTGACTTTCTGGGCAAAGTTGCTATACCATTGCTGTC
TATTCAAAATGGTGAACAGAAAGCCTACGTCTTGAAAAACAAGCAGCTGACAGGGCCAACAAAGGGGGTCATCTA
TCTTGAAATAGATGTGATTTTTAATGCTGTGAAAGCCAGCTTACGAACATTAATACCCAAAGAACAGAAGTACAT
TGAAGAGGAAAACAGACTCTCTAAACAGCTGCTACTAAGAAACTTTATCAGAATGAAACGTTGTGTCATGGTGCT
GGTAAATGCTGCATACTACGTTAATAGTTGCTTTGATTGGGATTCACCCCCAAGGAGTCTCGCTGCTTTTGTGGT
AGTGGAGGACATGCTAGAGGACGAGGAAGAAGAAGATGACAAAGATGACAAGGACAGTGAAAAAAAGGGATTTAT
AAATAAAATCTATGCCATCCAGGAGGTATGTGTCAGTGTCCAGAACATCCTAGATGAAGTGGCTTCCTTTGGCGA
AAGGATAAAGAATACTTTCAACTGGACTGTCCCATTCTTAAGCTGGCTGGCCATTGTAGCCCTCTGTGTGTTCAC
AGCCATCCTGTACTGCATTCCGCTGAGATACATTGTCCTTGTCTGGGGCATCAATAAATTTACAAAAAAGCTTCG
GAGTCCATATGCAATTGATAACAATGAACTACTTGACTTCCTTTCCAGAGTCCCTTCAGATGTACAAGTGGTGCA
ATACCAAGAACTGAAACCAGATCCTTCTCATAGCCCATATAAAAGAAAGAAAAACAATCTTGGC**TAG**CCAGCTCC
CAGCAATGAGGAGACCAGCATCTGTTTGGGAAGATAAAAGAAAAAGCCCTCAGCCTCAGCAGCATTTCCTTTCTT
TCTGCTTTTTATTTATTTTGCCTTTTTATCATGATCGAGAGAATCTGTAAATAGTGTACAAAGGCATATGTCTTT
GAATATATACTTCTATTGTACAGACTCAACTTGATAAAGGTTTTGCTACTGCTGTGTCAAAACCTTGTTAGCTGT
GGATAATAATATAACACACTGAAAGAACAAATATAAGAATGATAACACTGGAAGATATATTCTTATCTAATTACT
AGTGGATTAAATACTCACCTGTGCTCTGATTAAATCTACATCAATTGT

FIGURE 2345

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MLDSCKLKSACNLPFICNKKIINTAGTSNAEVPLADPGMYQLDITLRRGQSLAARDRGGTSDPYVKFKIGGKEVF
RSKIIHKNLNPVWEEKACILVDHLREPLYIKVFDYDFGLQDDFMGSAFLDLTQLELNRPTDVTLTLKDPHYPDHD
LGIILLSVILTPKEGESRDVTMLMRKSWKRSSKFQTQSLRLSDLHRKSHLWRGIVSITLIEGRDLKAMDSNGLSD
PYVKFRLGHQKYKSKIMPKTLNPQWREQFDFHLYEERGGVIDITAWDKDAGKRDDFIGRCQVDLSALSREQTHKL
ELQLEEGEGHLVLLVTLTASATVSISDLSVNSLEDQKEREEILKKYSPLRIFHNLKDVGFLQVKVIRAEGLMAAD
VTGKSDPFCVVELNNDRLLTHTVYKNLNPEWNKVFTFNIKDIHSVLEVTVYDEDRDRSADFLGKVAIPLLSIQNG
EQKAYVLKNKQLTGPTKGVIYLEIDVIFNAVKASLRTLIPKEQKYIEEENRLSKQLLLRNFIRMKRCVMVLVNAA
YYVNSCFDWDSPPRSLAAFVVVEDMLEDEEEEDDKDDKDSEKKGFINKIYAIQEVCVSVQNILDEVASFGERIKN
TFNWTVPFLSWLAIVALCVFTAILYCIPLRYIVLVWGINKFTKKLRSPYAIDNNELLDFLSRVPSDVQVVQYQEL
KPDPSHSPYKRKKNNLG
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FIGURE 2346

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CTGGGCTCGGGTGATCCTCCTGTCTTAGCCTTCCAAGGTGCTGGGATTACAGGTGTGGGCCACCATGCCCAGCCA
CCATCTTGGTTTAATTTCTTTCCTTGGAAATGGAGCAAAGGGCTTTCACTCTTCTTTTTCATGGCTGCATAGTAT
TCCATAATTGTTTAAACAATTGATAATAGACACTGTATCGGGGTGACTGGTATACCCCCAAAATCACATCTGCCC
AGAGCCTCAGGACATGGCCTTGTTTGGAAATGGTTTTAGCAGATGCAGCTAAGATGAGGTCACCCCGTGTTAGGA
TGGCCCCGAATCCAGTGCCTGGCACCCTTATAAGGAGAGGGAAACTTGGACGCAGACAGGAAGGCCGGGTGAAGA
CAGAAGCAGAGACCGGGGGCCAAGGAGTGCCTGGGGTTGCCCAGAGCCACCACGGGCTGCAAGAGGTGTGGGACA
GACTCTCTCAGCCACAGAAGGGCCCAGCCCCGCACAGGCCTGGATTTCAGAGGGCGAACATTTCTGTGGCCGAAG
CTCCCAGTGCGTTTGCAGTCCTTGGAGACGGCCGCAGACACATTTGTTCTTGGCCTGTCTCCAGGTCTGTAGCCC
CCACAGTGAGCGGCCACTGGCCGGAGGGGAACAGGAAGAGCTGGAGGGGACGTCACACACATGAGCCTTTTAGGA
ATAACGAGTGACACGTGCAAGACCCCAAACCAAACACCATGTAACCTGACACCCAGGGAGGGAGGGAGGGAGGGG
CTGGGAGGGGCTCACCTGTAGGGAGGGGCTCACCTGTACAGCGGTGCTGGGAAGCTGGCCTCGAGGGTCCCCGAG
GGGATACAGGGCCGTGCAGCCTCTTGCCTGAGGGTTTGCATGTCTGCCTGGATCCCCCGGGCTCCTGCCAGAAGG
CCTCTGAGGCCACCGTTGACAGCATAAAGGCCACCCAGTGTCTCGGCAACCACGCTGACCACTCCCTCCTCCCAG
CTGCGGGGTGAGGTGGCCTCGAGGGAAGGGCTGGAGAGTCGTTCTGAGTATTTAACAACTGGGGGTGACACAGTG
TGGGTGGGCAAGGCCAGGGCCACTGCCAGGTGGGGTCCGTGGCCCTGAGCCCCCAGCTCTATGCACCCCCCACCT
GGGGTCTGGCTTCTCCATCTCCACACCCCTTGAGGGGCTTCTGTCTCCCCTGCCCCTTCGATCGCAGGAGGCA
GTGCCTGGCCGGGGTCGCAGGCACCTGTCACCCCAGCTCCTCACTCCTCACCCACTCACATCCAGTCCGTTTGTA
AAATACACCCAGGATGAGACCTGCACGCAAGTGGCTCACAGCAGCACGATTTGTGACAGCCCGAGGCGGAGAACA
CCGAACACCCAGTGAAGGTGAGGGGATCAGCACGGCGCGGCCACCCACGCACCCACGCGCTGGAATGAGACTCAG
CCACAAGGAGGTGCGAAGCTCTGACCCAGGCCACAGTGCGGATGCACCTTGAGGATGTCACGCTCAGTGAGAGAC
ACCAGACACAGAAGGGTACGCTGTGATCCCACTTCTATGAAATGTCCAGGACAGACCAATCCACAGAATCAGGGA
GAGGATTCGTGGGTGCCGGGACTGGGGAGGGGGACCTGGGGGTGACTAGGTGACATAATGGGGACAGGGCTGCCT
TCTGGGTGATGAGAATGTTCTGGAATCAGATGGGATGGCTGCACGGCGTGGTGAAGGTACTGAACGCCACCTCAC
TGTAAGACGGTAGATTTTGTATTTTACCACAATAAACAAAACAAAACAAACCAAAAAAAAAAAAAAAA
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2637/2825
FIGURE 2347

MVLADAAKMRSPRVRMAPNPVPGTLIRRGKLGRRQEGRVKTEAETGGQGVPGVAQSHHGLQEVWDRLSQPQKGPA
PHRPGFQRANISVAEAPSAFAVLGDGRRHICSWPVSRSVAPTVSGHWPEGNRKSWRGRHTHEPFRNNE

FIGURE 2348

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TTTTCAGAGACTCGCCTGGCAGAGGCCTGGAGCGTCCTGCTGCGTGGACTGTGGGCACCGAGCCACCAGGAGGTT
GTTGATCTCATTCTTGCTCACTGGTCCCTGCCAGACTGGTGGTGCCTCTCTACTGTCGGGCAGCCCCACCTCTGT
GCTGCCCCATCCACCTACAGCCCTCATGCCTGGGCCCAGCTGGAGGTTCTGACAGGGGCCCCCTGGGGTGGCATG
CGGACCCTTCAGGGTGCCCCAGGCGCAGCACAGGTCTCCAGAGACACAGGCACCAGGGCGTTCAGAGCTAGTCCC
CTCGCTGCTGTTGACTGTCCTTGAGCAGCCCCAGGGCCGGTTTCTCAACCTCATTTGCTCACCTGAGCAATGAAG
TGAGGTGGGCTCCTGGAACTGCAGCAGCCACCCCCCGGGGCCATCGTGAGGCTAAGAATCCAGTGCAGGGTGAGC
AACCAGCGACCGCTACAAGGACAGTGAAGAGCTAGCACCAGGACCTTGGGTAGCCCACCCGCTGGAGGGAGCGTG
TGCTGCAAAAAGCAAGAGTGGGCTTTGGAGGCCAACGGATGGAGCGGATTCAGTCTGAGGCTGTTCCAGCCCTTG
CTTAGGATCCACCTACCTAGGTCTGGAAATCGTATTTCCACTTCAGATGCCTTCTCAGAGGATAAAATAACCCCC
GGTGGGGGAGAGTACTGGAAGAGGGCTAATTCCCCTGGTTTTCTCCCCATGAGCATTAGTGTCAGTGTAATTTTA
GAGTGACCCCAGCT**ATG**TCACGTGTGGCAGGCACAAGAACAGATGTCAATGAGCTATTGCAGAGGTGGACACCCA
GATGTGTGCGCTGGCACACTGGAGGGGCCCGTAGGGTGGCTCTAGACCGCCCCCTCGTGACGGCTTGCCTACCAC
CTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGG
AGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGCTGGACGAGATCAAGAGGGCCGTGTCAGAAAGGCAGGCGC
TGCGAGACGGAGACGGCAATCGCACCTGGGGCCGCCTAACAGAGGACCCCCGATTGAAGCCGTGGAACGGCTCAC
ACCGGCACGTGCTGCACCTGCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGC
CCGCGGTGCGCGTGGGCCAGGGCCGCACCGGAGTGTCGGTGGTGATGGGCATCCCGAGCGTGCGGCGCGAGGTGC
ACTCGTACCTGACTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTCATCG
TGGTGCTGATCGCCGAGACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCCCACGG
AGATCCATTCTGGGCTCCTGGAGGTCATCTCACCCTCCCCCCACTTCTACCCTGACTTCTCCCGCCTCCGAGAGT
CCTTTGGGGACCCCAAGGAGAGAGTCAGGTGGAGGACCAAACAGAACCTCGATTACTGCTTCCTCATGATGTACG
CGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCAACTACCTGAGCACCATGA
AGAACTTTGCACTGCAGCAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCCAGCTGGGCTTCATTGGTAAGA
TGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTCATTCTCATGTTCTACCGGGACAAGCCCATCGACTGGC
TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCA
ACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGA
AACTGAAGGACAAAGACTTTGGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGA
GCCTGAAGACATACCAGCACTTCACCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTCACCCCTG
CCGCGGGGGACTTCATCCGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGCAGTGGGAACA
TCGAGCACCCGGAGGACAAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCCTCAGTCAGACAAGG
AGGCCCTGCAGGAGGGCCGCACCGCCACCCTCCGGTACCCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCT
TCTACAAGGGAGTGGCAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
CGGACTCCCCTGTGTGGGTGATTCTGAGCGAGATCTTCCTGAAAAAGGCCGAC**TAA**GCTGCGGGCTTCTGAGGGT
ACCCTGTGGCCAGCCCTGAAGCCCACATTTCTGGGGGTGTCGTCACTGCCGTCCCCGGAGGGCCAGATACGGCCC
CGCCCAAAGGGTTCTGCCTGGCGTCGGGCTTGGGCCGGCCTGGGGTCCGCCGCTGGCCCGGAGGCCCTAGGAGCT
GGTGCTGCCCCCGCCCGCCGGGCCGCGGAGGAGGCAGGCGGCCCCCACACTGTGCCTGAGGCCCGGAACCGTTCG
CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAGAGCTTTTACTTGGGCGCCCGCCGTCTCTGGCGCGAACACTG
GAATGCATATACTACTTTATGTGCTGTGTTTTTTATTCTTGGATACATTTGATTTTTTCACGTAAGTCCACATAT
ACTTCTATAAGAGCGTGACTTGTAATAAAGGGTTAATGAAG
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FIGURE 2349

MSRVAGTRTDVNELLQRWTPRCVRWHTGGARRVALDRPLVTACLPPAGDVVDVYQREFLALRDRLHAAEQESLKR
SKELNLVLDEIKRAVSERQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLPTVFHHLPHLLAKESSLQPAVRV
GQGRTGVSVVMGIPSVRREVHSYLTDTLHSLISELSPQEKEDSVIVVLIAETDSQYTSAVTENIKALFPTEIHSG
LLEVISPSPHFYPDFSRLRESFGDPKERVRWRTKQNLDYCFLMMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFAL
QQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIR
FKPSLFQHVGTHSSLAGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDFFWAFTPAAGDF
IRFRFFQPLRLERFFFRSGNIEHPEDKLFNTSVEVLPFDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGV
AEGEVDPAFGPLEALRLSIQTDSPVWVILSEIFLKKAD

FIGURE 2350

GGCAAATGGGCTTGGGCGGCTCCTCGGCGGGTGGCGGTGGTGGCCGTAGCGGTTCCTCCTGGCCCTGTTAATGTC
GGGGCCAGGCCGGGGGAGGATGGCGCCCTAGAACCCGGCCTTGCTGGGGTAGGGGCGGGAGGGGACGGGGTGGGG
ACCGGCC**ATG**TCGGAGGTGACCCGGAGTCTGCTGCAGCGCTGGGGCGCCAGTTTTAGGAGAGGCGCCGACTTCGA
CTCTTGGGGCCAGCTGGTGGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTACAAAAGGAGGCCCAAGC
TCAACACAATAATTCTGAATTCACAGAAGAACAAAAGAAAACCATAGGCAAAATTGCAACATGCTTGGAATTGCG
AAGTGCAGCTTTACAGTCCACACAGTCTCAAGAAGAATTTAAACTGGAGGACCTGAAGAAGCTAGAACCAATCCT
AAAGAATATTCTTACATATAATAAAGAATTCCCATTTGATGTTCAGCCTGTCCCATTAAGAAGAATTTTGGCACC
TGGTGAAGAAGAGAATTTGGGATTTGAAGAAGATGAAGAAGAGGGTGGTGCTGGAGCAGGGTCTCCTGATTCTTT
TCCTGCTAGAGTTCCCGGTACTTTATTACCAAGGTTGCCATCGGAACCAGGAATGACATTACTCACTATCAGAAT
TGAGAAAATTGGTTTGAAAGATGCTGGGCAGTGCATCGATCCCTATATTACAGTTAGTGTAAAGGATCTGAATGG
CATAGACTTAACTCCTGTGCAAGATACTCCTGTGGCTTCAAGAAAAGAAGATACATATGTTCATTTTAATGTGGA
CATTGAGCTCCAGAAGCATGTTGAAAAATTAACCAAAGGTGCAGCTATCTTCTTTGAATTCAAACACTACAAGCC
TAAAAAAAGGTTTACCAGCACCAAGTGTTTTGCTTTCATGGAGATGGATGAAATTAAACCTGGGCCAATTGTAAT
AGAACTATACAAGAAACCCACTGACTTTAAAAGAAAGAAATTGCAATTATTGACCAAGAAACCACTTTATCTTCA
TCTACATCAAACTTTGCACAAGGAA**TGA**TCCTGACATGATGAACCTGGAACTTCTGTGAATTTTACCACTCAGTA
GAAACCATCATAGCTCTGTGTAGCATATTCACCCTTCAACAGGCAGGAAGCAAGCCGTACCCAGACCAGTAGGCC
GGACGGAGTCCAATGCAAAGCTGTACCACAGAATTCAGAGTCCAGCACATCACACTGACGTATAGGACTCCTTGG
GATACAGGTTTATTGTAGATTTTGAAACATGTTTTTACTTTTCTATTAATTGTGCAATTAATAGTCTATTTTCTA
ATTTACCACTACTCCTACCCTGCTTCCTGGAACAATACTGTTGTGGGTAGGATGTGCTCATCTTCAGACTTAATA
CAGCAATAAGAATGTGCTAGAGTTTACACATCTGTTCACTTTTGCTCCAATATGCTCTTTTGACTTAACGTCAAG
CTTTGGGTTGATGTGGGTAGGGTAGTGTCAAACTGCTTTGAGAGGAATGGGACCAGTTCTGCTGCCTAAGAAGGT
CTGTCTGGATGTTTATAGGCAGCACCTCTGAAGTGGCCTAAATTCACCCTGATCTGATAGTTTTCCTGCTTAGAA
AGTGTGCCTTGGCCAGATCAGTATCCCACATGGGAGTGTTCCCTAGGTTGTAGCTGTGATTGTTCCAGATGACC
AGATTGTTTTTCTGAAAATGAGCATATTTTTAGTCATGTCGATTAGCTGTTCTTCTACATCACATTGTTACTCTT
TCTGATGATGATTCTAGGGTTAACATTGGAACCATCTCAAAATAATTACAAAGTTTTAGATGGGTTTACAATGTC
TTCTAAACAATGTAATCTAAAAATAATTGAGTCAGATGCTAACGAGATACTGCAGGCATAACTGCTGTTTTTCTG
ACAACTGATTGTGAAACCTTAAAACCTGCATACCTCTTCTTACAGTGAGGAGTATGCAAAATCTGGAAAGATATT
CTATTTTTTTTATATAGGTAGATAGGATCGCCATTTATTTCCTATTTAGATATACTGACATTCATCCATATGAAA
ATATGCAGGTCATTAGCTTACTATAATTTACTTTTGACTTAATGGGGCATAAATAAAACTTTCATAGTACACATG
AGGTGGATATTTGATACACAGAACATTTGCGGTGGGCTTTCTGTGGGTTAGATGTAAAGCCCACATATTTTAATA
TTCACTATTTTAAATGAGCAATGCATGAGGGGAATGCAGTGTCAGTACCTGGCCTATTTTTAAACTAGTGTAATC
ACCCTAGTCATACCATTCAGTATGTTTGCTTTTTAAAATAAGTAACCACAATTAAGTTGTTGTAGCCCTTGCACT
TCAAGAGATCTAGTCTTTACTTTCAGTTGTCTGTTAGGTCCATTCTGTTTACTAGACGGATGTTAATAAAAACTA
TGCGAGCCTG

FIGURE 2351

MSEVTRSLLQRWGASFRRGADFDSWGQLVEAIDEYQILARHLQKEAQAQHNNSEFTEEQKKTIGKIATCLELRSA
ALQSTQSQEEFKLEDLKKLEPILKNILTYNKEFPFDVQPVPLRRILAPGEEENLGFEEDEEEGGAGAGSPDSFPA
RVPGTLLPRLPSEPGMTLLTIRIEKIGLKDAGQCIDPYITVSVKDLNGIDLTPVQDTPVASRKEDTYVHFNVDIE
LQKHVEKLTKGAAIFFEFKHYKPKKRFTSTKCFAFMEMDEIKPGPIVIELYKKPTDFKRKKLQLLTKKPLYLHLH
QTLHKE

FIGURE 2352

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CTCCCGGCCTCCCTGGTCCCGCCTGGGAAGGGATGCAAGGAAGCCCTCCGGCGCTGCGCTCCGAGGCGGGAGACA
GCGTCCCCCTCCGCCCCTCGGGTCCTGGCGCCTCAGAGCCCGGCCCAGGCCGCGGAACGGTGATGCTCGGGCCGG
ACGGGCGGGCGCGGATCCCTGCGTCCCGCTGAAAATGTGTGTCTGACATGCAAGCTCAGTGGGGCAGAGACCCGT
GGATTGCTGTGCCCTGCCCTCCGGACCTGGATCATGAAGGTGTTGGGAAGAAGCTTCTTCTGGGTGCTGTTTCCC
GTCCTTCCCTGGGCGGTGCAGGCTGTGGAGCACGAGGAGGTGGCGCAGCGTGTGATCAAACTGCACCGCGGGCGA
GGGGTGGCTGCCATGCAGAGCCGGCAGTGGGTCCGGGACAGCTGCAGGAAGCTCTCAGGGCTTCTCCGCCAGAAG
AATGCAGTTCTGAACAAATTGAAAACTGCAATTGGAGCAGTGGAGAAAGACGTGGGCCTGTCGGATGAAGAGAAA
CTGTTTCAGGTGCACACGTTTGAAATTTTCCAGAAAGAGCTGAATGAAAGTGAAAATTCCGTTTTCCAAGCTGTC
TACGGACTGCAGAGAGCCCTGCAGGGGGATTACAAAGATGTCGTGAACATGAAGGAGAGCAGCCGGCAGCGCCTG
GAGGCCCTGAGAGAGGCTGCAATAAAGGAAGAAACAGAATATATGGAACTTCTGGCAGCAGAAAAACATCAAGTT
GAAGCCCTTAAAAATATGCAACATCAAAACCAAAGTTTATCCATGCTTGACGAGATTCTTGAAGATGTAAGAAAG
GCAGCGGATCGTCTGGAGGAAGAGATAGAGGAACATGCTTTTGACGACAATAAATCAGTCAAGGGGGTCAATTTT
GAGGCAGTTCTGAGGGTGGAGGAAGGAGAGGCCAATTCTAAGCAAAATATAACAAAACGAGAAGTGGAGGATGAC
TTGGGTCTTAGCATGCTGATTGACTCCCAGAACAACCAGTATATTTTGACCAAGCCCAGAGATTCAACCATCCCA
CGTGCAGATCACCACTTTATAAAGGACATTGTTACCATAGGAATGCTGTCCTTGCCTTGTGGCTGGCTATGTACA
GCCATAGGATTGCCTACAATGTTTGGTTATATTATTTGTGGTGTACTTCTGGGACCTTCAGGACTAAATAGTATT
AAGTCTATTGTGCAAGTGGAGACATTAGGAGAATTTGGGGTGTTTTTTACTCTTTTTCTTGTTGGTTTAGAATTT
TCTCCAGAAAAGCTAAGAAAGGTGTGGAAGATTTCCTTACAAGGGCCGTGTTACATGACACTGTTAATGATTGCA
TTTGGCTTGCTGTGGGGGCATCTCTTGCGGATCAAACCCACGCAGAGCGTCTTCATTTCCACGTGTCTGTCCTTG
TCAAGCACACCCCTCGTGTCCAGGTTCCTCATGGGCAGTGCTCGGGGTGACAAAGAAGGCGACATTGACTACAGC
ACCGTGCTCCTCGGCATGCTGGTGACGCAGGACGTGCAGCTCGGGCTCTTCATGGCCGTCATGCCGACTCTCATA
CAGGCGGGCGCCAGTACATCTTCTAGCATTGTCGTGGAAGTTCTCCGAATCCTGGTTTTGATTGGTCAGATTCTT
TTTTCACTAGCGGCGGTTTTTCTTTTATGTCTTGTTATAAAGAAGTATCTCATTGGACCCTATTATCGGAAGCTG
CACATGGAAAGCAAGGGGAACAAAGAAATCCTGATCTTGGGAATATCTGCCTTTATCTTCTTAATGTTAACGGTA
ATTCTCAAACTATGTGTTATTTATGTAATCTGATACATAATCTCTTTCACTGAAATCTTGTGATCCATTCTTTAC
CTTTCCATTTTAATAATGGTTAAAATATTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA
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FIGURE 2353

MKVLGRSFFWVLFPVLPWAVQAVEHEEVAQRVIKLHRGRGVAAMQSRQWVRDSCRKLSGLLRQKNAVLNKLKTAI
GAVEKDVGLSDEEKLFQVHTFEIFQKELNESENSVFQAVYGLQRALQGDYKDVVNMKESSRQRLEALREAAIKEE
TEYMELLAAEKHQVEALKNMQHQNQSLSMLDEILEDVRKAADRLEEEIEEHAFDDNKSVKGVNFEAVLRVEEGEA
NSKQNITKREVEDDLGLSMLIDSQNNQYILTKPRDSTIPRADHHFIKDIVTIGMLSLPCGWLCTAIGLPTMFGYI
ICGVLLGPSGLNSIKSIVQVETLGEFGVFFTLFLVGLEFSPEKLRKVWKISLQGPCYMTLLMIAFGLLWGHLLRI
KPTQSVFISTCLSLSSTPLVSRFLMGSARGDKEGDIDYSTVLLGMLVTQDVQLGLFMAVMPTLIQAGASTSSSIV
VEVLRILVLIGQILFSLAAVFLLCLVIKKYLIGPYYRKLHMESKGNKEILILGISAFIFLMLTVILKLCVIYVI

FIGURE 2354A

CTCCTCCTCCGTCTCCTCCTCTCTCTCTCATCTGCTGTGGTT**ATG**GCCTGTCGCTGGAGCACAAAAGAGTCTCCG
CGGTGGAGGTCTGCGTTGCTCTTGCTTTTCCTCGCTGGGGTGTACGGAAATGGTGCTCTTGCAGAACATTCTGAA
AATGTGCATATTTCAGGAGTGTCAACTGCTTGTGGAGAGACTCCAGAGCAAATACGAGCACCAAGTGGCATAATC
ACAAGCCCAGGCTGGCCTTCTGAATATCCTGCAAAAATCAACTGTAGCTGGTTCATAAGGGCAAACCCAGGCGAA
ATCATTACTATAAGTTTTCAGGATTTTGATATTCAAGGATCCAGAAGGTGCAATTTGGACTGGTTGACAATAGAA
ACATACAAGAATATTGAAAGTTACAGAGCTTGTGGTTCCACAATTCCACCTCCGTATATCTCTTCACAAGACCAC
ATCTGGATTAGGTTTCATTCGGATGACAACATCTCTAGAAAGGGTTTCAGACTGGCATATTTTTCAGGGAAATCT
GAGGAACCAAATTGTGCTTGTGATCAGTTTCGTTGTGGTAATGGAAAGTGTATACCAGAAGCCTGGAAATGTAAT
AACATGGATGAATGTGGAGATAGTTCCGATGAAGAGATCTGTGCCAAAGAAGCAAATCCTCCAACTGCTGCTGCT
TTTCAACCCTGTGCTTACAACCAGTTCCAGTGTTTATCCCGTTTTACCAAAGTTTACACTTGCCTCCCCGAATCT
TTAAAATGTGATGGGAACATTGACTGCCTTGACCTAGGAGATGAGATAGACTGTGATGTGCCAACATGTGGGCAA
TGGCTAAAATATTTTTATGGTACTTTTAATTCTCCCAATTATCCAGACTTTTATCCTCCTGGAAGCAATTGCACC
TGGTTAATAGACACTGGTGATCACCGTAAAGTCATTTTACGCTTCACTGACTTTAAACTTGATGGTACTGGTTAT
GGTGATTATGTCAAAATATATGATGGATTAGAGGAGAATCCACACAAGCTTTTGCGTGTGTTGACAGCTTTTGAT
TCTCATGCACCTCTTACAGTTGTTTCTTCTTCTGGACAGATAAGGGTACATTTTTGTGCTGATAAAGTGAATGCT
GCAAGGGGATTTAATGCTACTTACCAAGTAGATGGGTTCTGTTTGCCATGGGAAATACCCTGTGGAGGTAACTGG
GGGTGTTATACTGAGCAGCAGCGTTGTGATGGGTATTGGCATTGCCCAAATGGAAGGGATGAAACCAATTGTACC
ATGTGCCAGAAGGAAGAATTTCCATGTTCCCGAAATGGTGTCTGTTATCCTCGTTCTGATCGCTGCAACTACCAG
AATCATTGCCCAAATGGCTCAGATGAAAAAAACTGCTTTTTTTGCCAACCAGGAAATTTCCATTGTAAAAACAAT
CGTTGTGTGTTTGAAAGTTGGGTGTGTGATTCTCAAGATGACTGTGGTGATGGCAGCGATGAAGAAAATTGCCCA
GTAATCGTGCCTACAAGAGTCATCACTGCTGCCGTCATAGGGAGCCTCATCTGTGGCCTGTTACTCGTCATAGCA
TTGGGATGTACTTGTAAGCTTTATTCTCTGAGAATGTTTGAAAGAAGATCATTTGAAACACAGTTGTCAAGAGTG
GAAGCAGAATTGTTAAGAAGAGAAGCTCCTCCCTCGTATGGACAATTGATTGCTCAGGGTTTAATTCCACCAGTT
GAAGATTTTCCTGTTTGTTCACCTAATCAGGCTTCTGTTTTGGAAAATCTGAGGCTAGCGGTACGATCTCAGCTT
GGATTTACTTCAGTCAGGCTTCCTATGGCAGGCAGATCAAGCAACATTTGGAACCGTATTTTTAATTTTGCAAGA
TCACGTCATTCTGGGTCATTGGCTTTGGTCTCAGCAGATGGAGATGAGGTTGTCCCTAGTCAGAGTACCAGTAGA
GAACCTGAGAGAAATCATACTCACAGAAGTTTGTTTTCCGTGGAGTCTGATGATACAGACACAGAAAATGAGAGA
AGAGATATGGCAGGAGCATCTGGTGGGGTTGCAGCTCCTTTGCCTCAAAAAGTCCCTCCCACAACGGCAGTAGAA
GCGACAGTAGGAGCATGTGCAAGTTCCTCAACTCAGAGTACCCGAGGTGGTCATGCAGATAATGGAAGGGATGTG
ACAAGTGTGGAACCCCCAAGTGTGAGTCCAGCACGTCACCAGCTTACAAGTGCACTCAGTCGTATGACTCAGGGG
CTACGCTGGGTACGTTTTACATTAGGACGATCAAGTTCCCTAAGTCAGAACCAGAGTCCTTTGAGACAACTTGAT
AATGGGGTAAGTGGAAGAGAAGATGATGATGATGTTGAAATGCTAATTCCAATTTCTGATGGATCTTCAGACTTT
GATGTGAATGACTGCTCCAGACCTCTTCTTGATCTTGCCTCAGATCAAGGACAAGGGCTTAGACAACCATATAAT
GCAACAAATCCTGGAGTAAGGCCAAGTAATCGAGATGGCCCCTGTGAGCGCTGTGGTATTGTCCACACTGCCCAG
ATACCAGACACTTGCTTAGAAGTAACACTGAAAAACGAAACGAGTGATGATGAGGCTTTGTTACTTTGT**TAG**GTA
CGAATCACATAAGGGAGATTGTATACAAGTTGGAGCAATATCCATTTATTATTTTGTAACTTTACAGTTAAACTA
GTTTTAGTTTAAAAAGAAAAAATGCAGGGTGATTTCTTATTATTATATGTTAGCCTGCATGGTTAAATTCGACAA
CTTGTAACTCTATGAACTTAGAGTTTACTATTTTAGCAGCTAAAAATGCATCACATATTCATATTGTTCAATAAT
GTCCTTTCATTTGTTTCTGATTGTTTTCATCCTGATACTGTAGTTCACTGTAGAAATGTGGCTGCTGAAACTCAT
TTGATTGTCATTTTTATCTATCCTATGTTAAATGGTTTGTTTTTACAAAATAATACCTTATTTTAATTGAAACGT
TTATGCTTTTGCCAACACATCTTGTAACTTAATATACTAGATGTTAAGGTTGTTAATGTACAAAAAAAAACCCT
TATACTCACCTGCGTTTTCATTTGTTTGACATTTGTCTATTATTGGATTTCATTATCATATGAACTTGTCAGTGG
GAAACAAACTGTCTAAAAATTTTTCTCTTACGTTTAACATACAATCATGTGAAATTTAGGCAGAGTTCGATAAAT
TACTGGCAAAAACAAAACTCTTTTATAAAGATTTTCTAATGTTGACTTTAATACTCTAACATGGTACAAACCAAA
TGGTAAAATCCCAAGTCATTTCTTTTTTCATCTCTATTTAGCAACAGAATTAAGTGGATGAAGATATTCTACTAT
GCATTAAATCTTGAACTTTATAAAACATGTACAAAAATTGTACAAGATAAGTTCCACCTGGTAATGTCTTTCCCT
AATACAGGGTTGCGCTTGCATTGGACCCTAGGGATTTGCACTAAAATTATATCAAGGTCTCAGATGAGCTTAGTG
CACAAGCACTATCACTTTAAATACTATTATTTGCTACCACAGCAACTATATATTTCCATAGCTTTTGGCTGGGGG